



SEQUENCE LISTING

0120> Moyer, Richard W.
Li, Yi
Bawden, Alison Louise

0120> Materials and Methods for Delivery and Expression of Heterologous DNA
in Vertebrate Cells

0130> UF-221C1XC1

0140> 09/662,254

0141> 2000-09-14

0150> 09/086,651

0151> 1998-05-29

0150> 60/224,479

0151> 2000-08-10

0160> 74

0170> PatentIn version 3.0

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0211> 861

0212> DNA

0213> Amsacta moorei entomopoxvirus

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#213# Amsacta moorei entomopoxvirus

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ggatttcattg ttcattgaata tgggtgatgtg agtaatgggt gtacatcagc aggagaacat 180

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gatttttggt atgtgtatgc agacgaaaat ggogttgcta atattgattt tcaogatgat 300

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#213# Amsacta moorei entomopoxvirus

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<213> Amsacta moorei entomopoxvirus

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 gaatgtgtta caaaaggaaa tatttatata ggatgtttota acagatcatg gatattaataa 3420
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 acaggaagac aaaatttaaa attaattatg atattaaatg gtttttagtga taaacatata 3540
 caatattata ttaatatttg gttaaaatta ttaaatatag aaaaatatgc agataaagca 3600
 gtttatocat acagtactgg tattataaaa cgttttaaaaa tagcaatgtc attagcaoot 3660
 agatcaattt taactttaat ggatgaacca aogtcaggaa tagatattgt atocaaaaca 3720
 atttatatga aaactataaa atatatattt aattataatt attataatta ttacaaacat 3780
 tccattttta tttcatcaaa taatatagaa gaaatagaat atttgtgtc taatgtgatt 3840
 atcctagatt ctggaaatat aatgtataac gatactttgg aaaatattaa aatatatat 3900
 agtactaaaa taattaatat taaattatta cattatgata ataacaaaat ttgtaaaata 3960
 aaaaataaat taaaaaataa aggtttttatg ttaaaatcag ataataaatt taaattaaca 4020
 ttttgtgtat ctaaaaatat taatttgaaa tatagtgaat tattttaaatt attatatata 4080
 ttaaagaata attattcaga tataattgat caatatgata taagtjatac aatatagaa 4140
 caattatttt ca 4152

4210 19
 4211 236
 4212 DNA

(213) Amsacta moorei entomopoxvirus

(400) 10

atgaattatt acattttatt atgtctatct atgttatctt catctagtta taattttaaa	60
ttataaaata ataataattg taatgaagat tatgatcttg gaatatgtag aataggaata	120
ttagatggta ttataattat aatattaaag attgtaaaat atttatctat ggtggatgtg	180
gtggtaacat gaataatttt aataattatg aagattgtat taataaatgt ttaatt	240

(210) 11

(211) 1719

(212) DNA

(213) Amsacta moorei entomopoxvirus

(400) 11

atgaatatat atttaaaaaa tgcattcaat gatacaatat cgcattctgtc aaaatttaca	60
aattcaataa atgatattat atcatttgat attaataatt ttactaaaaa tgttttgatt	120
atgggtaata atattaataa tattagaact aattttgaaa atgtgtctga tgataatagt	180
ataaaaaagaa gaataacaga attttttgat aaacaaaata cgcataattt aaaatttaga	240
agtataatat caattattaa atttcaaat ttaactgtaa catatgttaa taaaataata	300
aaagaaattg taacatataa atgtaatact agagaaataa atatagttaa tttttcatct	360
gtcacatctc aaattttcaa ctacgataat cctatatata atgaaatatt aaaacaatat	420
gtatataaac aaaaatttaa aaatgttact gttaataatg ataaaaagaa aataattgat	480
cctgatgatg agaaattagc tgaatctatt aaaaaaatat tagaagaaat attaaaaata	540
ttattaatta taaaaaaca tgattgtgtt gcttatgggt catttacttg ttataatata	600
aatagaagta taaaatataa tgatatagat ttatatagta ctgatgcata tagaatttta	660
atatttttta tgatatatat acatttact attggacatg acaattgttt atttagtata	720
ccttttataa ctgggcacat atcgttaaaa tataaaaaata tatttataat agattgtata	780
tttttagata attctattat aaatgttatt aataaatctt taattaataa tatatatctt	840
atagatcccg gtttacaat gttaataat tttagaatgt tatcagaaaa ttttagatct	900
tataaaatat atgaaaaaat ggaagaatct ttaataaat ataaaacatt attaaattat	960
tttgtaata ataataataa atttaataaa caaagattaa attattgggt aaaaacagat	1020
gtttgtagaa ataattttcc atatactata gtgcacaata caatattaat atcaataaaa	1080
gaattgatag atataagtc atatgattat ataagtattg tattagattc ggcgtcagac	1140
ataatggaaa aattatctaa tattagtggg ctatttagta gaaaatatgg tgcattttta	1200

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aatgaaatat tttttgaaac aaaaaaaata aaaaataaaa taaatacata tgttggaac 1260
acaaataaca taacacaatt aattgatgaa aataaattaa taaaattaaa tagaagtgat 1320
ataaatatgc catataatat taatcccaat aagaaatatt taattttcag taattttaaca 1380
acatctacgt atgtttactt tgagaatgat aaaatgactg atatatcagt aaaaaatota 1440
atatacattta tatcaacagc ttgtttatat aatttgttac aaaaaaaga tgatttttgt 1500
atggaattat attatttaac attacactgt ottacattta cggaaactag aaaattaaat 1560
gaatataaag taatagatag atataaaata aaaggogaac ataaagaaat atcattgtgt 1620
aaaaatttat ttaattcaat atataaaaaat aaaagtatgg aggacgaata tatggattat 1680
aatacattta tagatttaac taatataaat ggaggatat 1719

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-1210- 12
-1211- 286
-1212- PRT
-1213- Amsacta moorei entomopoxvirus

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-1400- 12

```

```

Met Thr Ile Phe Glu Ile Leu Ile Trp Ile Ile Val Leu Leu Ala Phe
1           5           10           15

```

```

Met Phe Ile Ile Phe Leu Tyr Val Val Leu Tyr Ile Lys Arg Arg Ile
          20           25           30

```

```

Tyr Glu Ile Leu Asn Glu Asn Ile Pro Ile Glu Ile Asn Ile Asp Asn
          35           40           45

```

```

Val Asn Tyr Pro Ser Glu Leu Tyr Thr Asp Lys Phe Asn Pro Asn Val
          50           55           60

```

```

Leu Lys Tyr Leu Ile Lys Ile Leu Leu Asp Phe Asn Thr Glu Ile Thr
          65           70           75           80

```

```

Asn Asn Ile Ile Ile His Ser Ile Asp Tyr Met Lys Ile Tyr Tyr Ile
          85           90           95

```

```

Ser Tyr Asn Lys Lys Lys Ile Ile Lys Leu Ile Leu Asp Arg Tyr Asn
          100          105          110

```

```

Asn Leu Trp Ile Val Ile Arg Gly Thr Leu Thr Tyr Asn Glu Phe Glu
          115          120          125

```

```

His Asp Leu Arg Ile Ser Gln Val Lys Ile Asp Asn Cys Asp Met Lys
          130          135          140

```

```

Cys His Lys Gly Phe Cys Glu Ile Tyr Ser Lys Ile Gln Lys Pro Leu
          145          150          155          160

```

```

Leu Asn Leu Leu Met Thr Leu Ser Pro Asn Lys Ile Phe Ala Leu Gly
          165          170          175

```


His Ser Leu Gly Gly Gly Ile Leu Ser Ile Ala Ala Tyr Asp Ile Phe
 180 185 190
 Asn Ile Leu Asn Lys Lys Glu Ile Ile Leu Tyr Thr Thr Gly Thr Pro
 195 200 205
 Arg Val Cys Asn Lys Asp Phe Tyr Asn Asn Cys Asn Lys Tyr Asn Ile
 210 215 220
 His Lys Val Glu Asn Leu Ser Asp Val Tyr Ile Asn Ala Ile Pro Ser
 225 230 235 240
 Val Leu Pro Phe Tyr Asp Asn Thr Val Tyr Tyr Lys Ile Gly Lys Ile
 245 250 255
 Trp Tyr Phe Asp Val Asn Tyr Gly Asn Ile Ile Leu His Lys Leu Glu
 260 265 270
 Ile Tyr Phe Asn Asn Ile Asp Asn Leu Lys Tyr Leu Glu Ile
 275 280 285

<210> 13
 <211> 151
 <212> PRT
 <213> Amsacta moorei entomopoxvirus

<400> 13

Met Lys Ala Ile Cys Val Met Thr Gly Lys Val Asn Gly Ile Ile Tyr
 1 5 10 15
 Phe Ile Gln Asn Ile Lys Gly Gly Ser Val His Val Lys Gly Lys Ile
 20 25 30
 Val Gly Leu Ser Lys Gly Leu His Gly Phe His Val His Glu Tyr Gly
 35 40 45
 Asp Val Ser Asn Gly Cys Thr Ser Ala Gly Glu His Phe Asn Pro Tyr
 50 55 60
 Asn Arg Gln His Gly Asp Ile Ser Asp Lys Ile His Arg His Val Gly
 65 70 75 80
 Asp Phe Gly Asn Val Tyr Ala Asp Glu Asn Gly Val Ala Asn Ile Asp
 85 90 95
 Phe His Asp Asp Ile Ile Ser Leu Cys Gly Thr Asn Asn Ile Ile Gly
 100 105 110
 Arg Thr Leu Val Val His Asp Ser Pro Asp Asp Leu Gly Lys Thr Asp
 115 120 125
 Pro Leu Ser Lys Thr Ser Gly Asn Ser Gly Gly Arg Leu Gly Cys Gly
 130 135 140
 Ile Ile Gly Ile Ala Lys Asp
 145 150

0210> 14
0211> 453
0212> PRT
0213> Amsacta moorei entomopoxvirus

0400> 14

Met	Tyr	Asn	Asn	Glu	Tyr	Phe	Thr	Asn	Arg	Val	Lys	Ile	His	Lys	Lys
1			5					10						15	
Ile	Asp	Thr	Ile	Asn	Lys	Asn	Val	Leu	Tyr	Leu	Ala	Tyr	Arg	Asp	Leu
		20						25					30		
Arg	Val	Tyr	Asp	Asn	Trp	Ser	Phe	Leu	Tyr	Ser	Gln	Asn	Ile	Ala	Tyr
		35					40					45			
Leu	Asn	Asn	Ser	Ser	Met	Tyr	Val	Leu	Tyr	Leu	Ile	Asn	Lys	Asn	Asn
	50					55					60				
Asn	Ile	Asn	Ile	Arg	Gln	Tyr	Lys	Phe	Leu	Tyr	Glu	Gly	Leu	Pro	Glu
65					70					75					80
Phe	Glu	Ser	Gln	Cys	Lys	Lys	Cys	Asn	Val	Ser	Phe	His	Leu	Leu	Ser
			85						90					95	
Tyr	Asn	Asn	Asn	Ile	Ile	Ser	Asn	Phe	Ile	Asn	Lys	Tyr	Lys	Ile	Gly
			100					105						110	
His	Val	Ile	Ile	Glu	Gln	Met	Pro	Leu	Leu	Phe	His	Lys	Lys	Tyr	Tyr
		115					120					125			
Leu	Asp	Pro	Leu	Lys	Lys	Leu	Asn	Val	Asn	Val	Tyr	Ile	Val	Asp	Ser
	130					135					140				
His	Asn	Ile	Ile	Pro	Val	Trp	Val	Thr	Ser	Asp	Lys	Gln	Glu	Tyr	Asn
145					150					155					160
Ala	Arg	Thr	Ile	Arg	Ile	Lys	Ile	Asn	Lys	Leu	Lys	Asp	Gln	Tyr	Leu
				165					170					175	
Ile	Glu	Phe	Pro	Lys	Val	Lys	Ile	Ser	Asn	Ile	Gln	Pro	Ile	Phe	Val
			180					185					190		
Glu	Asn	Asn	Phe	Asp	Ile	Ile	Pro	Asn	Tyr	Asp	Lys	Lys	Leu	Ile	Asn
		195					200					205			
Ile	Tyr	Glu	Ile	Val	Gly	Gly	Tyr	Thr	Asn	Gly	Ile	Asn	Arg	Met	Asn
	210					215						220			
Asn	Phe	Phe	Lys	Asn	Lys	Ile	Asn	Thr	Tyr	Lys	Asp	Lys	Lys	Asn	Asn
225					230					235					240
Pro	Asn	Tyr	Glu	Asn	Thr	Ser	Ile	Leu	Ser	Pro	Trp	Leu	His	Cys	Gly
				245					250					255	
Met	Ile	Ser	Ala	Gln	Arg	Cys	Val	Leu	Glu	Ala	Asn	Lys	Leu	Lys	Lys
			260					265					270		

Ile Lys Asp Tyr Asn Ile Glu Ser Ile Asp Ser Phe Ile Glu Glu Ile
 275 280 285
 Phe Ile Arg Lys Glu Leu Ser Asp Asn Phe Cys Tyr Tyr Asn Asn Asn
 290 295 300
 Tyr Lys Ser Phe Ala Ser Cys Pro Asn Trp Ala Ile Leu Thr Leu Glu
 305 310 315 320
 Ile His Lys Thr Asp Lys Arg Asn Lys Ile Phe Ser Leu Arg Glu Leu
 325 330 335
 Glu Tyr Gly Lys Thr Asp Asn Lys Leu Trp Asn Tyr Cys Gln Tyr Tyr
 340 345 350
 Leu Leu Lys Phe Gly Tyr Leu Asn Gly Tyr Met Arg Met Phe Trp Ala
 355 360 365
 Lys Lys Leu Ile Glu Trp Thr Asn Ser Pro Gln Asp Ala Ile Asp Lys
 370 375 380
 Thr Ile Tyr Leu Asn Asp Lys Tyr Phe Phe Asp Gly Tyr Asp Pro Met
 385 390 395 400
 Gly Tyr Val Asn Ile Leu Trp Ser Ile Gly Gly Leu His Asp Arg Ala
 405 410 415
 Phe Lys Glu Arg Glu Met Tyr Gly Lys Ile Arg Phe Met Ser Gln Pro
 420 425 430
 Leu Met Tyr Lys Lys Leu Asn Val Asn Asp Phe Tyr Asn Asn Phe Asp
 435 440 445
 Asn Val Ile Lys Ser
 450

410 15
 411 263
 412 PRT
 413 Amsacta moorei entomopoxvirus
 400 15

Met Met Asp Asp Ile Asn Leu Tyr Asn Glu Ser Glu Arg Leu Gln Thr
 1 5 10 15
 Phe Glu Asn Trp Pro Ile Asn Phe Ile Thr Pro Glu Ser Phe Ala Ser
 20 25 30
 Asn Gly Phe Tyr Tyr Ile Gly Glu Asn Asp Thr Val Lys Cys Val Tyr
 35 40 45
 Cys Gly Val Gln Ile Asn Lys Trp Val Glu Gly Asp Lys Pro Glu Ile
 50 55 60
 Asp His Lys Lys Phe Ser Pro Asn Cys Ser Phe Leu Lys Ser Asn Asp
 65 70 75 80

Gly Ile Asp Glu Cys Gly Asn Asn Lys Asn Ile Ser Asn Ile Thr Gln
 85 90 95
 Lys Gly Ala Val His Pro Asn Leu Ser Asn Ile Val Glu Arg Leu Lys
 100 105 110
 Thr Tyr Lys Glu Trp Pro Ile Ser Met Pro Ile Ser Thr Glu Lys Leu
 115 120 125
 Glu Ala Gly Phe Phe Tyr Thr Gly Lys Ser Asp Lys Val Lys Cys Phe
 130 135 140
 Tyr Cys Asp Gly Gly Leu Asn Lys Trp Glu Thr Asp Asp Asp Pro Trp
 145 150 155 160
 Ile Gln His Ala Arg Trp Phe Asp Lys Cys Asp Tyr Val Lys Leu Val
 165 170 175
 Lys Gly Lys Asp Phe Ile Gln Lys Val Met Thr Gln Ser Thr Phe Ile
 180 185 190
 Lys Ser Ser Lys Lys Glu Asn Ile Pro Glu Ile Asn Ile Ser Asn Asp
 195 200 205
 Glu Lys Asn Asp Ile Lys Leu Cys Lys Ile Cys Tyr Ile Glu Glu Arg
 210 215 220
 Val Ile Cys Phe Val Pro Cys Gly His Ile Phe Cys Cys Gly Lys Cys
 225 230 235 240
 Ala Ile Ser Met Asp Lys Cys Pro Val Cys Arg Asn Lys Ile Lys Asn
 245 250 255
 Leu Thr Arg Val Tyr Tyr Pro
 260

<110> 16
 <111> 295
 <112> PRT
 <113> Amsacta moorei entomopoxvirus

<400> 16

Met Asn Phe Met Pro Gln Tyr Tyr Tyr Ile Ser Asp Ile Asn Asn Glu
 1 5 10 15
 Ile Glu Tyr Asp Glu Asn Phe Asn Pro Gly Lys Lys Phe Asp Phe Lys
 20 25 30
 Arg Gln Gly Gln Ile Lys Leu Leu Met Asn Glu Ile Arg Phe Leu Thr
 35 40 45
 Glu Asp Val Glu Leu His Lys Asn Tyr Lys Asn Glu Asn Ile Asn Ile
 50 55 60
 Leu Tyr Ile Gly Ser Gly Lys Gly Tyr His Ile Pro Leu Leu Ile Asn
 65 70 75 80

Met Tyr Ser Asp Tyr Lys Ile Gln Trp Asp Leu Tyr Asp Pro Cys Gly
85 90 95

His Cys Glu Lys Leu Tyr Asn Ile Gln Lys Asn Asn Asn Asn Ile Lys
100 105 110

Ile Tyr Asp Thr Tyr Phe Asn Lys Ser Asp Val Glu Lys Tyr Glu Asn
115 120 125

Ile Asp Asn Leu Leu Phe Ile Thr Asp Ile Arg Thr Val Asp Asn Pro
130 135 140

Asp Asp Glu Pro Asn Thr Lys Asn Leu Ile Asn Asp Tyr Glu Leu Gln
145 150 155 160

Asn Tyr Ile Leu Lys Glu Leu Lys Pro Ile Ser Leu Val Lys Gln Arg
165 170 175

Asp Pro Phe Pro Asn Asp Trp Asp Asp Ser Tyr Lys Leu Ser Ile Pro
180 185 190

Asp Gly Lys Glu Tyr Ile Gln Cys Phe Gln Lys Tyr Asn Ser Ala Glu
195 200 205

Tyr Arg Ile Phe Ile Ser Gly Ile Thr Thr Phe Val Asp Ile Asn Ser
210 215 220

Val Ile Leu Asn Lys Arg Gly Ile Asp Arg Lys Leu Ala Trp Tyr Asn
225 230 235 240

Met Lys Tyr Arg Phe Gln Asn Asp Asn Asp Tyr Lys Ile Ala Tyr Arg
245 250 255

Ile Leu Asn Lys Tyr Ile Lys Ser Glu Asn Lys Pro Ile Leu Lys Lys
260 265 270

Tyr Asn Asn Ile Asn Lys Asn Asn Ile Lys Asn Val Ile Arg Ser Leu
275 280 285

Ser Lys Glu Met Gly Tyr Tyr
290 295

<10> 17
<11> 289
<12> PRT
<13> Amsacta moorei entomopoxvirus

<400> 17

Met Asp Val Asn Lys Tyr Ile Tyr Glu Tyr Asn Lys Pro Leu Tyr Tyr
1 5 10 15

Thr Tyr Tyr Asp Leu Cys Arg Asn Met Asn Asp Val Ile Tyr Asp Tyr
20 25 30

Asn Asn Asn Thr Ile Lys Lys Tyr Met Asp Ile Leu Leu Ser Gln Ile
35 40 45

Gln Phe Leu Ser Asn Ile Asn Ile Lys Lys Cys Asn Asn Thr Asn Gly
 50 55 60
 Ile Val Asn Ile Leu Tyr Ile Gly Ser Ser Lys Ala Tyr His Phe Asn
 65 70 75 80
 Ile Leu Asn Glu Leu Tyr Lys Asn Leu Thr Asn Ile Gln Trp Tyr Phe
 85 90 95
 Tyr Asp Ile Ile Asp Pro Cys Ile Ser Val Glu Arg Leu Ser Tyr Asn
 100 105 110
 Ile Ile Phe Asn Arg Leu Phe Thr Glu Asp Asp Ile Ile Asp Phe Lys
 115 120 125
 Asp Lys Tyr Pro Leu Ile Leu Ile Tyr Asp Tyr Asp Asp Lys Ser Asn
 130 135 140
 Val Arg Asp Leu Leu Tyr His Tyr Asn Met Gln Asn Asn Ile Ile Ile
 145 150 155 160
 Tyr Leu Asn Pro Thr Tyr Ser Leu Leu Lys Phe Lys Tyr Met Pro Ile
 165 170 175
 Lys Trp Asn Asn Ser Phe Asn Asp Tyr Glu Tyr Ile Ser Thr Gly Ile
 180 185 190
 Lys Tyr Leu Pro Thr Ile Lys Ser Leu His Thr Arg Asn Ile Ile Asp
 195 200 205
 Asn Lys Asn Ile Met Thr Leu Thr Phe Asp Glu Ile Glu Ser Glu Asn
 210 215 220
 Tyr Tyr Glu Lys Met Asn Tyr Tyr Asn Asn Cys Gly Tyr Asn Asp Ile
 225 230 235 240
 Tyr Asn Asn Ile Ser Gly Tyr Ile Leu Asn Lys Ser Asn Leu Tyr Asp
 245 250 255
 Asn Asn Asn Ser Ala Tyr Asn Ile Leu Lys Ile Tyr Glu Lys Asn Ile
 260 265 270
 Ile Asn Thr Ile Asn Glu Asp Lys Ile Phe Arg Ser Lys Glu Lys Tyr
 275 280 285

Ile

<210> 18
 <211> 1089
 <212> PRT
 <213> Amsacta moorei entomopoxvirus

<400> 18

Met Pro Phe Leu Gly Thr Gly Ile Leu Lys Phe Asp Ile Thr Gln Leu
 1 5 10 15

Gln Asn Lys Glu Lys Gly Ser Asp Tyr Asn Ala Ile Arg Tyr Leu Lys
 20 25 30
 Arg Ile Leu Asn Lys Pro Cys Asp Asn Asp Asp Ile Leu Ile Pro Tyr
 35 40 45
 Asp Lys Leu Glu Ser Lys Glu Ile Asn Ile Ile Tyr Asn Trp Tyr Ile
 50 55 60
 Ile Lys Pro Ser Ser Leu Glu Gln Phe Ile Val Cys Lys Cys Lys Asp
 65 70 75 80
 Tyr Asp Thr Glu Glu Ile Ile Tyr Ile Leu Phe Asp Ile Tyr Glu Tyr
 85 90 95
 Phe Leu Cys Asp Tyr Glu Leu Ser Glu Ser Asn Thr Lys Leu Lys Asn
 100 105 110
 Ile Lys Asn Asn Ile Lys Tyr Lys Asn Ser Phe Asn Ser Ser Tyr Leu
 115 120 125
 Val Leu Glu Asp Tyr Lys Ile Ile Thr Asn Glu Val Asn Ile Gln Tyr
 130 135 140
 Tyr Tyr Asn Tyr Thr Glu Asp Ser Lys Ile Thr Leu Asn Asn Asn Asp
 145 150 155 160
 Leu Val Leu Phe Met Thr Pro Tyr Lys Ile Glu Lys Ile Tyr Ser Lys
 165 170 175
 Asn Ile Phe Ile Asn Gln Tyr Arg Trp Phe Tyr Val Leu Asn Asn Ile
 180 185 190
 Glu Pro Ser Gly Ser Tyr Arg Ile Asn Met Asp Asn Met Gln Lys Ile
 195 200 205
 Lys Thr Tyr Asn Lys Asn Lys Thr Ser Tyr Tyr Cys Lys Asn Pro Lys
 210 215 220
 Leu Leu Phe Ser Asn Tyr Val Lys Ile Asp Lys Ile Pro Ala Ser Arg
 225 230 235 240
 Val Ser Ile Asp Ile Glu Cys Gln His Phe Gly Glu Phe Pro Thr Ala
 245 250 255
 Asn Lys Phe Pro Ile Ser His Ile Cys Ile Asp Trp Tyr Met Asp Lys
 260 265 270
 Asn Thr Asn Pro Ile Lys Lys Ile Ile Thr Leu Ile Asn Tyr Glu Ile
 275 280 285
 Ile Lys Asn Tyr Val Gly Lys Lys Asp Lys Phe Ile Tyr Thr Glu Val
 290 295 300
 Asn Lys Leu Leu Asn Thr Asn Lys Val Tyr Ile Thr Ile Tyr Cys Thr
 305 310 315 320
 Glu Lys Tyr Met Leu His Phe Val Leu Tyr Thr Leu Arg Gln Asp Phe

325										330					335				
Asp	Tyr	Val	Leu	Thr	Tyr	Asn	Gly	His	Asn	Phe	Asp	Phe	Thr	Tyr	Ile				
			340					345					350						
Gln	Arg	Arg	Lys	Ile	Asn	Lys	Leu	Lys	Gly	Leu	Cys	Leu	Asp	Asn	Val				
			355				360					365							
Tyr	Ser	Thr	Asn	Glu	Ile	Lys	Ile	Ser	Lys	Phe	Ser	Tyr	Asn	Gln	Asp				
	370					375					380								
Thr	Thr	Tyr	Glu	Ile	Asp	Ser	Thr	Asn	Gly	Ile	Ile	Phe	Leu	Asp	Leu				
385					390					395					400				
Tyr	Asn	Tyr	Ile	Lys	Lys	Thr	Tyr	Pro	Ser	Ser	Asn	Tyr	Lys	Leu	Ser				
				405					410					415					
Glu	Ile	Thr	Lys	Glu	Arg	Phe	Asn	Ile	Phe	Cys	Lys	Ile	Ser	Tyr	Asn				
			420					425					430						
Asn	Asn	Glu	Tyr	Ile	Ile	Glu	Pro	Leu	Asn	Thr	Lys	Ala	Asn	Lys	Asn				
		435					440					445							
Lys	Ile	Ser	Ile	Phe	Tyr	Asp	Val	Ile	Arg	Thr	Ala	Asn	Tyr	Cys	Phe				
	450					455					460								
Ile	Asn	Asn	Asn	Pro	Tyr	Lys	Lys	Asn	Lys	Thr	Glu	Ile	Ile	Asp	Asp				
465					470					475					480				
Ile	Glu	Lys	Leu	Tyr	Asp	Leu	Thr	Ser	Ile	Lys	Asn	Ser	His	Asn	Lys				
				485					490					495					
Lys	Phe	Thr	Ile	Tyr	Glu	Asn	Asp	Ile	Pro	Ile	Asn	Asp	Asn	Tyr	Ala				
			500					505					510						
Thr	Val	Met	Leu	Ser	Lys	Asp	Asp	Val	Asp	Ile	Gly	Asp	Lys	Asn	Ala				
		515					520					525							
Tyr	Val	Phe	Thr	Lys	Glu	Lys	Ser	Asp	Asn	Ile	Ala	Tyr	Tyr	Cys	Thr				
	530					535					540								
His	Asp	Thr	Val	Leu	Cys	Asn	Cys	Ile	Phe	Lys	Tyr	Asp	Met	Ile	His				
545					550					555				560					
Asp	Lys	Ile	Ile	Ala	Phe	Ser	Asn	Glu	Tyr	Leu	Leu	Pro	Gln	Cys	Met				
				565					570					575					
Ala	Phe	Lys	Tyr	Lys	Ser	Ser	Asn	Asn	Ile	Ser	Gly	Leu	Leu	Lys	Thr				
			580					585					590						
Leu	Tyr	Ser	Asn	Lys	Thr	Met	Ile	Tyr	Pro	Gly	Asn	Val	Glu	Phe	Glu				
		595					600					605							
Lys	Phe	Glu	Gly	Gly	Tyr	Val	Ile	Glu	Pro	Lys	Gln	Lys	Tyr	Ile	Asp				
	610					615					620								
Ser	Leu	Thr	Ala	Val	Phe	Asp	Phe	Asn	Ser	Glu	Tyr	Pro	Ser	Ile	Ile				
625					630					635				640					

Ile Glu Ala Asn Leu Ser Pro Glu Val Val Lys Val Ile Lys Leu Phe
 645 650 655
 Asp Asp Glu Glu Ala Ala Asn Lys Val Glu Lys Tyr Leu Lys Asp Asn
 660 665 670
 Tyr Lys Tyr Pro Asp Tyr Cys Tyr Ile Lys Ile Ile Lys Asp Lys Met
 675 680 685
 Tyr Lys Phe Ile Leu Met Asp Arg Arg Glu Leu Gly Val Thr Thr Gln
 690 695 700
 Met Val Lys Gly Arg Glu Met Lys Asn Met Tyr Lys Asp Leu Lys Asn
 705 710 715 720
 Lys Asn Lys Asp Asn Val Asp Leu His Asn Phe Tyr Ser Ser Ala Leu
 725 730 735
 Tyr Ser Lys Lys Ile Thr Ile Asn Ser Met Tyr Gly Leu Ser Gly Ser
 740 745 750
 Glu Arg Phe Ile Phe Asn Ser Pro Tyr Cys Ala Glu Tyr Cys Val Gln
 755 760 765
 Gly Gln Asn Cys Ile Lys Tyr Ile Gln Thr Leu Val Asn Asn Ser Lys
 770 775 780
 Tyr Ile Asp Asn Val Leu Ile Leu Asn Lys Cys Asn Asn Pro Phe Thr
 785 790 795 800
 Asn Glu Pro Ile Lys Thr Asn Tyr Pro Gly Asn Leu Asn Val Asn Phe
 805 810 815
 Thr Phe Asn Val Lys Tyr Gly Asp Thr Ser Leu Phe Ile Thr Val Asn
 820 825 830
 Phe Glu Ser Lys Phe Asn Ser Lys Glu Glu Lys Val Lys Val Gly His
 835 840 845
 Lys Cys Phe Thr Phe Leu Gly Asn Val Ile Asn Asp Lys Lys Asn Lys
 850 855 860
 Ile Leu Thr Asp Asn Phe Glu Phe Glu Tyr Glu Lys Met Tyr Tyr Trp
 865 870 875 880
 Met Ile Leu Leu Lys Lys Lys Tyr Ile Gly Glu Val Val Ile Asn Met
 885 890 895
 Asp Pro Leu Gln Leu Met Asp Asp Thr Lys Gly Thr Ala Leu Ile Arg
 900 905 910
 Arg Asp Cys Thr Val Ile His Lys Thr Ile Leu Lys Asn Thr Ile Asn
 915 920 925
 Ile Leu Lys Asp Phe Leu Thr Asn Asp Asn Thr Gly Ile Asn Ile Asn
 930 935 940
 Val Lys Ile Asn Asp Tyr Leu Ser Ser Ala Phe Lys Asn Ile Ile Glu

945 950 955 960
 Asn Ile Gln Asn Leu Asp Ile Asn Asp Phe Lys Lys Ser Val Lys Tyr
 965 970 975
 Ser Gly Val Tyr Lys Asp Pro Asn Tyr Pro Ile Glu Leu Cys Val Lys
 980 985 990
 Glu Tyr Asn Leu Lys Asn Pro Asn Asp Lys Ile Thr Lys Gly Gln Arg
 995 1000 1005
 Phe Asp Phe Ile Tyr Ala His Lys Ile Asn Glu Trp Ser Lys Asp
 1010 1015 1020
 Lys Lys Trp Asn Ile Lys Tyr Thr Ile Asp Ile Ser Lys His Val
 1025 1030 1035
 Ile Ile Leu Glu Asp Tyr Leu Lys Asn Lys Asn Asn Tyr Arg Ile
 1040 1045 1050
 Cys Val Glu Lys Tyr Ile Lys Asp Ile Leu Ser Asn Leu Asp Gln
 1055 1060 1065
 Ile Ile Asn Asp Lys Asn Ile Ile Lys Asn Ile Asp Ile Met Leu
 1070 1075 1080
 Asn Ser Tyr Glu Pro Gln
 1085

<210> 19
 <211> 611
 <212> PRT
 <213> Amsacta moorei entomopoxvirus
 <400> 19

Met Asn Asp Ile Asp Lys Asn Asn Ile Leu Asn Asn Lys Tyr Ile Gly
 1 5 10 15
 Phe His Thr Ile Lys Glu Tyr Leu Asp Lys Tyr Lys Cys Pro Leu Gln
 20 25 30
 Phe Phe Val Gly Ala Pro His Ser Tyr Gln Ser Thr Glu Tyr Leu Asn
 35 40 45
 Lys Ser Tyr Thr Gly Arg Thr Ile Phe Val His Ser Lys Tyr Val Gly
 50 55 60
 Asn Ile Ala Lys Asp Lys Asn Ser Val Ala Leu Arg Asn Ile Lys Lys
 65 70 75 80
 Glu Leu Leu Tyr Leu Gln Asn Met Glu Ile Asn Asn Ser Gly Thr Val
 85 90 95
 Val His Leu Ser Leu Tyr Tyr Asn Lys Asn Gln Glu Glu Ser Leu Lys
 100 105 110
 Tyr Val Ala Asn Glu Leu Asn Lys Phe Cys Lys Val Leu Asp Asn Ile

115	120	125
Asp Asn Asn Tyr Phe Asn His Ile Ile Phe Glu Thr Thr Asn Asp Ile 130 135 140		
Arg His Leu Gly Ala Lys Thr Glu Asp Phe Lys Ile Leu Tyr Asp Asn 145 150 155 160		
Leu Asp Ser Asn Ala Lys Lys Arg Ile Lys Phe Cys Ile Asp Thr Ser 165 170 175		
His Ile Phe Val Thr Phe Tyr Asn Ile Asn Thr Val Lys Gly Met Ile 180 185 190		
Asn Tyr Leu Ala Lys Phe Asp Leu Leu Ile Gly Leu Asp Lys Ile Ile 195 200 205		
Leu Ile His Leu Asn Asp Ser Cys Gly Leu Pro Leu Ser Ser Tyr Lys 210 215 220		
Pro His Glu Ala Ile Gly Lys Gly Asn Ile Phe Lys Asn Tyr Lys Asp 225 230 235 240		
Asp Leu Ser Ser Leu His Ile Leu Lys Thr Tyr Ala Thr Leu Tyr Asn 245 250 255		
Ile Pro Cys Ile Leu Glu Arg Arg Asn Glu Val Pro Asp Gln Ser Ile 260 265 270		
Met Asp Glu Met Lys Ile Tyr Leu Asp Ile Lys Gln Asn Met Asn Ile 275 280 285		
Asp Asn Phe Met Ser Met Ile Asn Lys His Lys Ile Leu Leu Val Leu 290 295 300		
Asn Lys Phe Ala Asp Ile Tyr Asn Ile Leu Asn Glu Ile Lys Tyr Lys 305 310 315 320		
Ala Phe Leu Asn Ala Ala Tyr Val Ile Gln Asn Thr Pro Val Ile Ile 325 330 335		
Phe Lys Tyr Lys Asn Val Asn Asn Lys Phe Ile Leu Asn Glu Ser Lys 340 345 350		
Glu Asn Ile Ile Gln Lys Tyr Lys Asn Leu Lys Ser Ile Gly Thr Ser 355 360 365		
Ile Ser Asp Ile Ile Tyr Glu Leu Leu Ser Thr Asn Lys Val Glu Lys 370 375 380		
Leu Ile Asn Leu Glu Asn Asn Ser Ser Tyr Lys Tyr Ile Lys Ile Leu 385 390 395 400		
Thr Ser Ile Leu Phe Ile Gly Pro Lys Lys Ala Gln Ser Leu Leu Lys 405 410 415		
Leu Asn Ile Lys Asn Ile Asn Asp Leu Ile Glu Lys Lys Asp Asn Ile 420 425 430		

Ile Asn Met Gly Ile Leu Thr Ile His Glu Ile Lys Ile Ile Glu Tyr
 435 440 445
 Ile Lys Asp Met Glu Pro Val Ser Arg Asn Phe Ile Asn Asp Leu Lys
 450 455 460
 Gln Asn Ile Asn Leu Ser Ser Glu Cys Glu Trp Tyr Ile Leu Gly Ser
 465 470 475 480
 Tyr Ala Arg Gly Leu Asp Tyr Ser Lys Asp Ile Asp Ile Leu Ile Ile
 485 490 495
 Asp Phe Thr Ile Asp Lys Phe Leu Glu Glu Leu Lys Lys Ile Ala Lys
 500 505 510
 Leu Met Tyr Ile Ile Arg Lys Gly Asn Asn Ile Phe Ser Gly Val Phe
 515 520 525
 Leu Trp Gln Gly Lys Lys Phe Ile Leu Glu Ile Asn Lys Val Asn Asn
 530 535 540
 Lys Glu Lys Tyr Thr Ala Ile Met His Phe Thr Gly Ser Lys Lys Phe
 545 550 555 560
 Asn Ile Phe Met Arg Asn Ile Ala Lys Ser Glu Asn Met Ile Leu Asn
 565 570 575
 Gln Tyr Ser Leu Lys Lys Asp Asn Val Glu Leu Pro Ile Thr Lys Glu
 580 585 590
 Glu Asp Ile Phe Asp Tyr Leu Lys Ile Lys Tyr Ile Pro Asn Asn Lys
 595 600 605
 Arg Asn Ile
 610

<110> 20
 <111> 1381
 <112> PRT
 <113> Amsacta moorei entomopoxvirus

<400> 20

Met Tyr Phe Asn Ile Leu Asn Gly Leu Leu Trp Lys Tyr Tyr Ile Ile
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 Lys Arg Lys Lys Tyr Ile Tyr Asp Met Leu Glu Tyr Leu Leu Leu Ile
 20 25 30
 Leu Phe Phe Thr Leu Leu Tyr Ser Phe Lys Lys Asn Ile Lys Tyr Tyr
 35 40 45
 Asp Asn Asp Leu Asn Asn Ile Asn Lys Ile Asn Asn Asn Thr Asn Ile
 50 55 60
 Ile Tyr Tyr Pro Lys Ser Asn Ile Ser Ile Lys Ile Ile Glu Asn Val
 65 70 75 80

Ala Lys Glu Leu Lys Ile Asn Lys Tyr Tyr Gly Ser Ser Asn Glu Asn
 85 90 95
 Glu Ile Ile Asn Phe Ile Asp Thr Asn Glu Thr Ile Phe Ile Leu Phe
 100 105 110
 Asn Asn Thr Cys Glu Asn Leu Leu Tyr Thr Ile Arg Phe Asn Asn Asn
 115 120 125
 Glu Asn Asn Asp Arg Leu Leu Ile Asn Ile Gln Trp Leu Ile Asn Met
 130 135 140
 Asn Tyr Leu Arg Leu Leu Ser Asn Lys Asn Ile Asn Ile Asp Ile Asp
 145 150 155 160
 Ile Asn Glu Tyr Ile Tyr Lys Asn Phe Asn Thr Asn Ile Leu Phe Tyr
 165 170 175
 Thr Tyr Tyr Ser Ile Leu Ile Ile Ala Phe Ile Ser Phe Ile Leu Lys
 180 185 190
 Asn Asn Asn Asp Asn Asn Asp Pro Met Phe Lys Ile Ile Lys Val Pro
 195 200 205
 Lys Ile Leu Ile Tyr Ile Ser Asn Phe Ile Cys Ser Ile Pro Phe Gly
 210 215 220
 Ile Ile Tyr Ser Val Phe Gly Thr Ile Ile Leu Thr Ile Ser Glu Asp
 225 230 235 240
 Pro Leu Ile Asn Asn Asn Asn Asn Ile Ile Met Phe Leu Ile Leu Leu
 245 250 255
 Ile Tyr Phe Ile Ser Val Ile Ser Met Ala Tyr Leu Asn Phe Phe Ile
 260 265 270
 Leu Leu Ile Tyr Lys Tyr Lys Ile Phe Val Ile Met Cys Val Tyr Val
 275 280 285
 Leu Thr Ile Ile Pro Ile Thr Leu Tyr Asn Asn Leu Asn Ser Asp Ile
 290 295 300
 Asn Ile Phe Ile Gly Leu Ile Pro His Ile Pro Leu Tyr Trp Ile Phe
 305 310 315 320
 Asp Gln Leu Asn Tyr Val Glu Lys Gln Asn Lys Ser Leu Thr Phe Asn
 325 330 335
 Asn Asn Ile Ser Tyr Ser Ile Tyr Ser Lys Ser Ile Leu Ile Ser Ile
 340 345 350
 Ile Tyr Leu Ile Leu Gln Ser Phe Ile Tyr Ile Ser Ile Ile His Ile
 355 360 365
 Ile Lys Leu Ile Tyr Lys Ile Cys Lys Lys Tyr Met Lys Met Lys Tyr
 370 375 380
 Ile Tyr Ile Ile Asn Glu Asn Asn Asn Tyr Met Leu Glu Thr Glu Asn

385	390	395	400
Asn Asp Tyr Tyr Val 405	Lys Ile Gln Asn Ile 410	Tyr Lys Tyr Tyr Asp 415	Asn
Asn Phe Ile Leu Asn Asn 420	Ile Cys Leu Asp Ile 425	Ile Lys Asn Asn Thr 430	
Thr Val Leu Leu Gly Asn Asn 435	Ser Ala Gly Lys Ser Thr 440	Leu Leu Ser	
Ile Ile Phe Gly Leu Ile 450	Lys Pro Asn Lys Gly Lys 455	Ile Leu Thr Asn 460	
Asn Ile Lys Ile Gly Tyr Cys 465	Pro Gln Asn Asn Ile Phe 470	Thr Asp Phe 475	
Thr Val Lys Glu Asn Ile Tyr 485	Leu Phe Asn Ile Leu Arg 490	Gly Leu Ser 495	
Ser Leu Gln Ser Lys Ile Lys 500	Thr Asn Glu Ile Ile Ile 505	Tyr Leu Lys 510	
Leu His Asp Ile Glu Asn Cys 515	Ile Ile Thr Glu Leu Ser 520	Glu Cys Ser 525	
Lys Arg Lys Leu Gln Leu Ala 530	Phe Ser Leu Ile Asp 535	Asp Ser Asp Phe 540	
Ile Leu Ile Asp Glu Pro Thr 545	His Asn Ile Asp Leu Lys 550	Ser Lys Glu 555	
Glu Ile Trp Asp Leu Ile Ser 565	Leu Leu Lys Arg Asn Lys 570	Thr Ile Leu 575	
Ile Thr Thr His Cys Ile Asp 580	Glu Val Glu Leu Leu Ala 585	Asp Asn Leu 590	
Ile Ile Leu Asn Asn Gly Asn 595	Val Lys Tyr Asn Ser Thr 600	Leu Phe Asn 605	
Ile Lys Lys Asp Ala Asn Val 610	Thr Tyr Lys Leu Ser Ile 615	His Asn Asn 620	
Ser Thr Asp Asp Lys Ile Lys 625	Asn Ile Ile Ile Asn Ser 630	Gly Phe Ile 635	
Ile Leu Asn Ile Asn Lys Ile 645	Asp Glu Asn Asn Ser Ile 650	Tyr Asn Ile 655	
Tyr Lys Thr Glu Asn Ser Asn 660	Phe Leu Lys Leu Phe Glu 665	Leu Leu Glu 670	
Asn Val Asn Cys Asp Ile Ile 675	Tyr Phe Lys Ser Asn Thr 680	Leu Asn Asp 685	
Ile Leu Tyr Lys Leu Cys Ser 690	Glu Asp Ile Ile Ile Pro 695	Asp Asp Ser 700	

Tyr Ile Asn Asn Leu Asn Tyr Asn Asp Met Phe Ile Ser Glu Ile Met
 705 710 715 720
 Gly Phe Asn Lys Ile Met Arg Gln Phe Ile Glu Leu Phe Lys Arg Asn
 725 730 735
 Ile Tyr Tyr Ile Arg Lys Asn Ile Leu Leu Phe Val Ile Ile Asn Phe
 740 745 750
 Ile Leu Ser Ile Leu Ile Val Tyr Val Gly Ile Val Tyr Ile Lys Lys
 755 760 765
 Tyr Glu Asn Leu Tyr Leu Tyr Asn Phe Val Ile Ile Asn His Asn Ile
 770 775 780
 Asp Asn Phe Ile Asn Asn Ser Asn Tyr Leu Leu Asp Ile Lys His Asn
 785 790 795 800
 Ser Thr Tyr Asn Lys Ile Thr Tyr Ile Pro Leu Phe Lys Tyr Ser Gly
 805 810 815
 Ser Ile Ala Ile Asn Ile Ile Ser Asn Ile Ile Ala Lys Ile Asn Ile
 820 825 830
 Pro Asn Ile Glu Lys Asp Ile Ile Thr Thr Ile Phe Tyr Pro Met Tyr
 835 840 845
 Gln Asn Lys Thr Ser Ile Leu Thr Asn Leu Phe Ile Ser Ile Ile Leu
 850 855 860
 Gln Leu Tyr Cys Ile Asn Tyr Asn Lys Leu Ile Lys Lys Asp Asn Ile
 865 870 875 880
 Asn Lys Thr Arg Lys Gln His Ile Ile Asn Gly Cys Asn Pro Glu Leu
 885 890 895
 His Trp Ile Thr Thr Leu Leu Phe Asn Met Ile Leu Phe Ser Ile Ser
 900 905 910
 Val Ile Pro Ile Ile Leu Tyr Met Leu Asn Ile Lys Ser Phe Phe Asp
 915 920 925
 Leu Ile Ile Leu Tyr Phe Ile Leu Ile Ile Asn Ala Leu Ser Phe Met
 930 935 940
 Leu Phe Ser Ile Ile Ile Leu Met Phe Asp Asn Gln Ser Asp Lys Ile
 945 950 955 960
 Ile Leu Ile Leu Val Phe Ile Leu Gly Ile Leu Leu Pro Ile Tyr Lys
 965 970 975
 Ile Lys Tyr Lys Asn Ile Ile Leu Asp Ile Leu Ser Tyr Ile Phe Ile
 980 985 990
 Pro Ser Cys Ile Ser Met Ser Ile Ile Glu Tyr Leu Asn Thr His Lys
 995 1000 1005
 Leu Asn Tyr Ile Ile Ser Ile Ile Ile Gln Ile Leu Leu Tyr Leu

1010	1015	1020
Ile Leu Ile Ile Leu Ile	Glu Arg Gly Leu Ile	Asp Ile Ile Tyr
1025	1030	1035
Asn Lys Ile Ile Asn Leu	Lys Tyr Asn Arg Lys	Asn Asn Asn Tyr
1040	1045	1050
Phe Glu Leu Gln Asn Ile	Asn Lys Tyr Thr Asp	Tyr Asn Ser Ser
1055	1060	1065
Leu Ile Met Ser Asn Val	Tyr Lys Ile Tyr Asn	Asn Lys Leu Ala
1070	1075	1080
Leu Asn Asn Ile Asn Phe	Lys Ile Ser Glu Gly	Lys Cys Phe Gly
1085	1090	1095
Ile Ile Gly Gly Asn Gly	Cys Gly Lys Ser Thr	Ile Phe Lys Ile
1100	1105	1110
Leu Ser Gly Glu Glu Cys	Val Thr Lys Gly Asn	Ile Tyr Ile Gly
1115	1120	1125
Cys Ser Asn Arg Ser Trp	Ile Leu Lys Ser Asn	Tyr Phe Lys Lys
1130	1135	1140
Ile Ser Tyr Cys Ser Gln	Phe Phe Gly Ile Asp	Thr Phe Leu Thr
1145	1150	1155
Gly Arg Gln Asn Leu Lys	Leu Ile Met Ile Leu	Asn Gly Phe Ser
1160	1165	1170
Asp Lys His Ile Gln Tyr	Tyr Ile Asn Ile Trp	Leu Lys Leu Leu
1175	1180	1185
Asn Ile Glu Lys Tyr Ala	Asp Lys Ala Val Tyr	Thr Tyr Ser Thr
1190	1195	1200
Gly Ile Ile Lys Arg Leu	Lys Ile Ala Met Ser	Leu Ala Pro Arg
1205	1210	1215
Ser Ile Leu Thr Leu Met	Asp Glu Pro Thr Ser	Gly Ile Asp Ile
1220	1225	1230
Val Ser Lys Gln Ile Ile	Trp Lys Thr Ile Lys	Tyr Ile Ile Asn
1235	1240	1245
Tyr Asn Tyr Tyr Asn Tyr	Tyr Lys His Ser Ile	Leu Ile Ser Ser
1250	1255	1260
Asn Asn Ile Glu Glu Ile	Glu Tyr Leu Cys Ser	Asn Val Ile Ile
1265	1270	1275
Leu Asp Ser Gly Asn Ile	Met Tyr Asn Asp Thr	Leu Glu Asn Ile
1280	1285	1290
Lys Asn Ile His Ser Thr	Lys Ile Ile Asn Ile	Lys Leu Leu His
1295	1300	1305

Tyr Asn Asn Lys Ile Cys Lys Ile Lys Asn Lys Leu Lys Asn
1310 1315 1320

Lys Gly Phe Met Leu Lys Ser Asp Asn Lys Phe Lys Leu Thr Phe
1325 1330 1335

Cys Val Ser Lys Asn Ile Asn Leu Lys Tyr Ser Glu Leu Phe Lys
1340 1345 1350

Ile Leu Tyr Ile Leu Lys Asn Asn Tyr Ser Asp Ile Ile Asp Gln
1355 1360 1365

Tyr Asp Ile Ser Asp Thr Asn Ile Glu Gln Leu Phe Ser
1370 1375 1380

<110> 11

<111> 79

<112> PET

<113> Amsacta moorei entomopoxvirus

<400> 11

Met Asn Tyr Tyr Ile Leu Leu Cys Leu Phe Met Leu Phe Ser Ser Ser
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Tyr Asn Phe Lys Leu Ile Asn Asn Asn Ile Cys Asn Glu Asp Tyr Asp
20 25 30

Pro Gly Ile Cys Arg Ile Gly Asp Ile Arg Trp Tyr Tyr Asn Tyr Asn
35 40 45

Ile Lys Asp Cys Lys Ile Phe Ile Tyr Gly Gly Cys Gly Gly Asn Met
50 55 60

Asn Asn Phe Asn Asn Tyr Glu Asp Cys Ile Asn Lys Cys Leu Ile
65 70 75

<110> 22

<111> 572

<112> PET

<113> Amsacta moorei entomopoxvirus

<400> 22

Met Asn Ile Tyr Leu Lys Asn Ala Ser Asn Asp Thr Ile Ser His Leu
1 5 10 15

Ser Lys Phe Thr Asn Gln Ile Asn Asp Ile Ile Ser Phe Asp Ile Asn
20 25 30

Asn Phe Thr Lys Asn Val Leu Ile Met Arg Asn Asn Ile Asn Asn Ile
35 40 45

Arg Thr Asn Phe Glu Asn Val Ser Asp Asp Asn Ser Ile Lys Arg Arg
50 55 60

Ile Thr Glu Phe Phe Asp Lys Gln Asn Thr Pro Asn Leu Lys Leu Gly
65 70 75 80

Ser Ile Ile Ser Ile Ile Lys Phe Gln His Leu Thr Val Thr Tyr Val
 85 90 95
 Asn Lys Ile Ile Lys Glu Ile Val Thr Tyr Lys Cys Asn Thr Arg Glu
 100 105 110
 Ile Asn Ile Val Asn Phe Ser Ser Val Thr Ser Gln Ile Ser Asn Tyr
 115 120 125
 Asp Asn Pro Ile Leu Asn Glu Ile Leu Lys Gln Tyr Val Tyr Lys Gln
 130 135 140
 Lys Leu Lys Asn Val Thr Val Asn Asn Asp Lys Lys Lys Ile Ile Asp
 145 150 155 160
 Pro Asp Asp Glu Lys Leu Ala Glu Ser Ile Lys Lys Ile Leu Glu Glu
 165 170 175
 Ile Leu Lys Ile Leu Leu Ile Ile Lys Asn Asn Asp Cys Val Ala Tyr
 180 185 190
 Gly Ser Phe Thr Cys Tyr Asn Ile Asn Arg Ser Ile Lys Tyr Asn Asp
 195 200 205
 Ile Asp Leu Tyr Ser Thr Asp Ala Tyr Arg Ile Leu Ile Phe Phe Met
 210 215 220
 Ile Tyr Ile His Leu Thr Ile Gly His Asp Thr Cys Leu Phe Ser Ile
 225 230 235 240
 Pro Phe Ile Thr Gly His Ile Ser Leu Lys Tyr Lys Asn Ile Phe Ile
 245 250 255
 Ile Asp Cys Ile Phe Leu Asp Asn Ser Ile Ile Asn Val Ile Asn Lys
 260 265 270
 Ser Leu Ile Asn Asn Ile Tyr Phe Ile Asp Pro Gly Leu Gln Met Leu
 275 280 285
 Asn Asn Phe Arg Met Leu Ser Glu Asn Phe Arg Ser Tyr Lys Ile Tyr
 290 295 300
 Glu Lys Met Glu Glu Ser Leu Asn Lys Tyr Lys Thr Leu Leu Asn Tyr
 305 310 315 320
 Phe Val Asn Asn Asn Asn Lys Phe Asn Lys Gln Arg Leu Asn Tyr Trp
 325 330 335
 Leu Lys Ser Asp Val Cys Arg Asn Asn Phe Pro Tyr Thr Ile Val Asp
 340 345 350
 Asn Thr Ile Leu Ile Ser Ile Lys Glu Leu Ile Asp Ile Ser Pro Tyr
 355 360 365
 Asp Tyr Ile Met Ile Val Leu Asp Ser Pro Ser Asp Ile Met Glu Lys
 370 375 380
 Leu Ser Asn Ile Ser Gly Leu Phe Ser Arg Lys Tyr Gly Ala Phe Leu

385	390	395	400
Asn Glu Ile Phe Phe Glu Thr Lys Lys Ile Lys Asn Lys Ile Asn Thr	405	410	415
Tyr Ala Gly Asn Thr Asn Asn Ile Thr Gln Leu Ile Asp Glu Asn Lys	420	425	430
Leu Ile Lys Leu Asn Arg Ser Asp Ile Asn Met Pro Tyr Asn Ile Asn	435	440	445
Pro Asn Lys Lys Tyr Leu Ile Phe Ser Asn Leu Thr Thr Ser Thr Tyr	450	455	460
Val Tyr Phe Glu Asn Asp Lys Met Thr Asp Ile Ser Val Lys Asn Leu	465	470	475
Ile Ser Phe Ile Ser Thr Ala Cys Leu Tyr Asn Leu Leu His Lys Lys	485	490	495
Asp Asp Phe Gly Met Glu Leu Tyr Tyr Leu Thr Leu His Cys Leu Thr	500	505	510
Phe Thr Glu Thr Arg Lys Leu Asn Glu Tyr Lys Val Ile Asp Arg Tyr	515	520	525
Lys Ile Gly Glu His Lys Glu Ile Ser Leu Cys Lys Asn Leu Phe Asn	530	535	540
Ser Ile Tyr Lys Asn Lys Ser Met Glu Asp Glu Tyr Met Asp Tyr Asn	545	550	555
Thr Phe Ile Asp Leu Thr Asn Ile Asn Gly Gly Tyr	565	570	

<210> 23
 <211> 59000
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

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 aaatatttag aatttattga aaattagtaa aattagattg ttctaaaaca tatattgatt 180
 ctctaaaagg aatacattat ctactaatt tacaaaaatt aattctttta aagaaatatg 240
 ttgcottaat aatattaaaa aaataaattg ttcatatata atcattgatt ctctaaaagg 300
 aataagtctt aataatttag aagaattata ttgttataat ataaaaattt attcttttaa 360
 tataataata aaaaatctgc ttattaaaaa tattaaatgg ttataaatat ataaattaat 420
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 aaaaaataat tatgttaaaa tggagttacc ttagaaaatg ttagaaatta tatttaatta 540

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attaatatat aataattatt atataaaatc tttagaaggt attgaaaatt ttactaaatt	700
aataaatta tattgttaca atacaagaat cgattcttta aaaggaatag aaaatctcat	750
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taatacaaat attatttatt aataagttta ttattctatt atagtatata cattaatatt	1900
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agaatcatat totatacaac aatcacaaca ccatgtttca aagatagaaa atccacaata	2150
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attagaagta taactgattt aaatatttta cctataggtt taagaaaaaa aataaataaa	3960
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 aaa ata aca cgt ttt ttt aga aca ata tac gaa tat agt ata tat ggt 192
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 Thr Val Pro Ile Glu Asn Asn Glu Arg Tyr Ile Arg Ile Tyr Asn Asn
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 Tyr Asp Lys Asn Gly Glu Leu Leu Phe Pro Ile Asn Val Ile Tyr Ile
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Leu Ile Ile Glu Ile Pro Lys Gly Cys Tyr Ala Arg Leu Ala Pro Arg	
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65 70 75 80	
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Asp Glu Asp Tyr Arg Gly Asn Val Gly Val Ile Leu Phe Asn His Ser	
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Cys Glu Lys Ile Leu Tyr Pro Lys Met Leu Lys Val Asp Ser Leu Ser	
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Arg Thr Ile Phe Asn Leu Pro Ile His Lys Ile Ile Asn Phe Ile Pro	
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ttt ttt tta tta ttc gaa gaa tct aaa att aaa tat aaa aat ata aaa	336
Phe Phe Leu Leu Ser Glu Glu Ser Lys Ile Lys Tyr Lys Asn Ile Lys	
100 105 110	
aat att att aat tat tat aat tat gat gat ata tct att ttt agt aaa	384
Asn Ile Ile Asn Tyr Tyr Asn Tyr Asp Asp Ile Ser Ile Phe Ser Lys	
115 120 125	
tat aaa gat aat aat aat ata tat act gaa ttt aaa tta tta att aat	432
Tyr Lys Asp Asn Asn Asn Ile Tyr Thr Glu Phe Lys Leu Leu Ile Asn	
130 135 140	
aat aaa ttt att tat ttc caa gaa tgc ttt gaa tat ata tca aaa agt	480
Asn Lys Phe Ile Tyr Leu Gln Glu Ser Phe Glu Tyr Ile Ser Lys Ser	
145 150 155 160	
aat aat tgt ata tat tgt tat tct act aat ata aat gat aaa ata ata	528
Asn Asn Cys Ile Tyr Cys Tyr Ser Thr Asn Ile Asn Asp Lys Ile Ile	
165 170 175	
tta gag cat aat aat gga att att aaa ggt ttt tgt tct ata gtt tgt	576
Leu Glu His Asn Asn Gly Ile Ile Lys Gly Phe Cys Ser Ile Val Cys	
180 185 190	
aga gat tgc ata tct aaa caa ata tat aat aca att atg cct att tat	624
Arg Asp Ser Ile Ser Lys Gln Ile Tyr Asn Thr Ile Met Pro Ile Tyr	
195 200 205	
aaa ttt agt gca tat ttg gta cca ttt gaa tta ata aaa aat aaa aaa	672
Lys Phe Ser Ala Tyr Leu Val Pro Phe Glu Leu Ile Lys Asn Lys Lys	
210 215 220	
gaa ttt tta aat aat att aat cat ata aaa aat att gat aat tta tat	720
Glu Phe Leu Asn Asn Ile Asn His Ile Lys Asn Ile Asp Asn Leu Tyr	
225 230 235 240	
ggt ggt tat tgt cat tta act aat aat aaa act aaa gta gaa tta ttt	768
Gly Gly Tyr Cys His Leu Thr Asn Asn Lys Thr Lys Val Glu Leu Phe	
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att aca aat taa	780
Ile Thr Asn	

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 <213> Amsacta moorei entomopoxvirus

 <220>
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 aaa aaa aaa ata tat cca ata tgc aat tgt att att aat att ttt gat 96
 Lys Lys Lys Ile Tyr Pro Ile Cys Asn Cys Ile Ile Asn Ile Phe Asp
 20 25 30
 aaa gaa att aaa ata cca act tta act aaa gca ata ata gac acc aaa 144
 Lys Glu Ile Lys Ile Pro Thr Leu Thr Lys Ala Ile Ile Asp Thr Lys
 35 40 45
 cat aat tta gga cct ata tat cta aat ata gct aat atg ctg gcg tat 192
 His Asn Leu Gly Pro Ile Tyr Leu Asn Ile Ala Asn Met Leu Ala Tyr
 50 55 60
 gtt gat ata ata tat tta ttt aat aat aat tta gat gaa ata aat aat 240
 Val Asp Ile Ile Tyr Leu Phe Asn Asn Asn Leu Asp Glu Ile Asn Asn
 65 70 75 90
 tgt ggt ata tac tta cgg att att gac gat ggt agc aaa cat ttt tta 288
 Cys Gly Ile Tyr Leu Pro Ile Ile Asp Asp Gly Ser Lys His Phe Leu
 85 90 95
 act tat aaa gat ata aaa tta ttt ata ttt gat gac gaa act ggt aaa 336
 Thr Tyr Lys Asp Ile Lys Leu Phe Ile Phe Asp Asp Glu Thr Gly Lys
 100 105 110
 ata aaa att att gat aat cct aaa cat tct gat aaa cat cat ata ata 384
 Ile Lys Ile Ile Asp Asn Pro Lys His Ser Asp Lys His His Ile Ile
 115 120 125
 aat tta tct aaa gaa cgt aaa aca gat gat gct ata ggt tca tca cac 432
 Asn Leu Ser Lys Glu Arg Lys Thr Asp Asp Ala Ile Gly Ser Ser His
 130 135 140
 gtt tta tta ttt tca tgt aat tca aaa att gaa gaa aat atc aat ttg 480
 Val Leu Leu Phe Ser Cys Asn Ser Lys Ile Glu Glu Asn Ile Asn Leu
 145 150 155 160
 cat aaa aat att tta tta aca ttt aaa gat tat cct gtg aaa gtt gat 528
 His Lys Asn Ile Leu Leu Thr Phe Lys Asp Tyr Pro Val Lys Val Asp
 165 170 175
 ata aaa aat gaa ata gaa aat tct aaa cat tat tat gaa aaa aat tta 576
 Ile Lys Asn Glu Ile Glu Asn Ser Lys His Tyr Tyr Glu Lys Asn Leu
 180 185 190
 tta tat aaa aaa cca ttt tct atg tat agc aaa tat cat gaa gaa aaa 624
 Leu Tyr Lys Lys Pro Phe Ser Met Tyr Ser Lys Tyr His Glu Glu Lys
 195 200 205
 gat att tat act ata gat ata aga tat aat cat tat gat gat att cct 672
 Asp Ile Tyr Thr Ile Asp Ile Arg Tyr Asn His Tyr Asp Asp Ile Pro
 210 215 220
 aaa gaa aat ata aaa aaa ttc ttt att gat ata ttt aat aaa ata gca 720

Lys	Glu	Asn	Ile	Lys	Lys	Phe	Phe	Ile	Asp	Ile	Phe	Asn	Lys	Ile	Ala	
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Asp	Ile	Phe	Glu	Asn	Ile	Lys	Ile	Lys	Lys	Asn	Asn	Val	Asp	Tyr	Ser	
				245					250					255		
aat	aaa	ata	agt	tat	tct	aat	ata	tta	gat	cat	aaa	atg	aat	tat	aaa	816
Asn	Lys	Ile	Ser	Tyr	Ser	Asn	Ile	Leu	Asp	His	Lys	Met	Asn	Tyr	Lys	
			260					265				270				
tat	att	aac	gta	gat	gat	att	ata	gaa	aag	aat	aaa	atg	gat	gca	ttg	864
Tyr	Ile	Asn	Val	Asp	Asp	Ile	Ile	Glu	Lys	Asn	Lys	Met	Asp	Ala	Leu	
		275					280					285				
tgt	tct	ata	aat	gat	ata	cct	gga	ata	aat	gga	aca	tat	tta	aaa	cca	912
Cys	Ser	Ile	Asn	Asp	Ile	Pro	Gly	Ile	Asn	Gly	Thr	Tyr	Leu	Lys	Pro	
	290					295				300						
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Ser	Asp	Glu	Glu	Ile	Asn	Asp	Ala	Glu	Tyr	Ser	Leu	Asn	Thr	Ile	Met	
305					310					315					320	
aga	aat	aca	ata	aaa	gaa	tta	tta	gaa	tct	ttt	ata	aat	ttt	att	gat	1008
Arg	Asn	Thr	Ile	Lys	Glu	Leu	Leu	Glu	Ser	Phe	Ile	Asn	Phe	Ile	Asp	
				325					330					335		
gaa	aca	tac	gaa	gaa	cgt	tta	aat	agt	aaa	aat	ata	tat	taa			1050
Glu	Thr	Tyr	Glu	Glu	Arg	Leu	Asn	Ser	Lys	Asn	Ile	Tyr				
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 <113> Amsacta moorei entomopoxvirus

<110>
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1				5					10					15		
ata	aaa	aat	acc	aaa	gat	aag	tta	tct	ata	gat	aat	ttt	ata	ttc	gaa	96
Ile	Lys	Asn	Thr	Lys	Asp	Lys	Leu	Ser	Ile	Asp	Asn	Phe	Ile	Phe	Glu	
			20				25						30			
cat	aaa	gat	tta	tat	gat	aat	gta	gtt	att	tat	tca	aaa	tat	tta	tca	144
His	Lys	Asp	Leu	Tyr	Asp	Asn	Val	Val	Ile	Tyr	Ser	Lys	Tyr	Leu	Ser	
		45				40					45					
gat	aaa	gat	ttt	aaa	ttt	tta	tac	gtt	att	gta	gaa	aaa	tat	cca	gac	192
Asp	Lys	Asp	Phe	Lys	Phe	Leu	Tyr	Val	Ile	Val	Glu	Lys	Tyr	Pro	Asp	
	50					55					60					

gca aat cca aat ata ata tat aat ata ttt aaa aca tca cag ata tct	240
Ala Asn Pro Asn Ile Ile Tyr Asn Ile Phe Lys Thr Ser Gln Ile Ser	
65 70 75 80	
ata acg caa gat att aat ata aat aaa ata ata cag aat aaa gat aat	288
Ile Thr Gln Asp Ile Asn Ile Asn Lys Ile Ile Gln Asn Lys Asp Asn	
85 90 95	
aca aaa ata aac caa gat ata cac aca tat aat tat ttg tta tta tta	336
Thr Lys Ile Asn Gln Asp Ile His Thr Tyr Asn Tyr Leu Leu Leu	
100 105 110	
aat aaa tta tat ata ttt caa cca ata cca aaa ttt ata aat ata tta	384
Asn Lys Leu Tyr Ile Phe Gln Pro Ile Pro Lys Phe Ile Asn Ile Leu	
115 120 125	
ttg gat ata aaa tca aaa aat gta gat aat cta gac aaa ata aat aat	432
Trp Asp Ile Lys Ser Lys Asn Val Asp Asn Leu Asp Lys Ile Asn Asn	
130 135 140	
ata aat aca aat ttg tta aat ata att aca aat ata gaa atg tca aaa	480
Ile Asn Thr Asn Ser Leu Asn Ile Ile Thr Asn Ile Glu Met Ser Lys	
145 150 155 160	
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Val Asn Ile Ile Tyr Ile Ser Phe Thr Tyr Ile Ser Ser Tyr Ile Glu	
165 170 175	
tca cat aaa agt gaa ctt acg tta aat aaa aaa ttt tct att tat gat	576
Ser His Lys Ser Glu Leu Thr Leu Asn Lys Lys Phe Ser Ile Tyr Asp	
180 185 190	
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Asn Leu Arg Arg Ile Ile Gly Val Pro Ile Ser Asn Asn Asn Tyr Lys	
195 200 205	
tta aat tat tat att aaa gct aaa ata gat tca gaa aca tta ata tat	672
Leu Asn Tyr Tyr Ile Lys Ala Lys Ile Asp Ser Glu Thr Leu Ile Tyr	
210 215 220	
aat ata ttt aat tct gta gct ttt aaa aaa gta ata ata tat gga ttt	720
Asn Ile Phe Asn Ser Val Ala Phe Lys Lys Val Ile Ile Tyr Gly Phe	
225 230 235 240	
gga gtt tat caa ata aaa gat gta aaa aat ata ata aaa gat acg att	768
Gly Val Tyr Gln Ile Lys Asp Val Lys Asn Ile Ile Lys Asp Thr Ile	
245 250 255	
aat gat gtt ttg tca tac ata gtt aat aat aat aaa gaa aaa ttg tat	816
Asn Asp Val Ser Ser Tyr Ile Val Asn Asn Asn Lys Glu Lys Leu Tyr	
260 265 270	
caa cgt aca tac tgt tgt tgt tat ttt tta aac tgt tat tat gaa aaa	864
Gln Arg Thr Tyr Cys Cys Cys Tyr Phe Leu Asn Cys Tyr Tyr Glu Lys	
275 280 285	
att ttt aaa aat tta tcc aca caa aca tat gat aaa ata tta tat tca	912
Ile Phe Lys Asn Leu Ser Thr Gln Thr Tyr Asp Lys Ile Leu Tyr Ser	

290	295	300	
aat gta gtt aat att aat gat gtt att cat aaa aaa tat gaa tat ttc Asn Val Val Asn Ile Asn Asp Val Ile His Lys Lys Tyr Glu Tyr Phe 305 310 315 320			960
gaa tgt caa cat gta caa gaa tat aaa aat gtt ttt aia aat gta gaa Glu Cys Gln His Val Gln Glu Tyr Lys Asn Val Phe Lys Asn Val Glu 325 330 335			1008
aat ttt tat att aat act aat aaa ttt cta gaa aat tat att aat att Asn Phe Tyr Ile Asn Thr Asn Lys Phe Leu Glu Asn Tyr Ile Asn Ile 340 345 350			1056
gtt aat aaa gta gct ata tgt aaa att tgt gga gaa tgg tta gat atg Val Asn Lys Val Ala Ile Cys Lys Ile Cys Gly Glu Ser Leu Asp Met 355 360 365			1104
ttt aat ttt gaa gaa gaa aat tat att caa tct aaa ggc gaa att ata Phe Asn Phe Glu Glu Ala Asn Tyr Ile Gln Ser Lys Gly Glu Ile Ile 370 375 380			1152
ata aca aca aat aaa gaa aat att ttc caa tat gaa aat tat tca aga Ile Thr Thr Asn Lys Glu Asn Ile Phe Gln Tyr Glu Thr Tyr Ser Arg 385 390 395 400			1200
tta gtt aat gct gaa tta ttt tta aca gat att ata gga att tat gat Leu Val Asn Ala Glu Leu Phe Leu Thr Asp Ile Ile Gly Ile Tyr Asp 405 410 415			1248
gat att ttt aac aca aac aga atg gac gat ttt aat aat ata tct aga Asp Ile Phe Asn Thr Asn Arg Met Asp Asp Phe Asn Asn Ile Ser Arg 420 425 430			1296
ata att att gat ttt ttt att gat att aac aca aat aga tta gaa tat Ile Ile Ile Asp Phe Phe Ile Asp Ile Asn Thr Asn Arg Leu Glu Tyr 435 440 445			1344
caa gat aaa tat aaa aaa caa atc tct aac tcc aaa tta ttt ttt ata Gln Asp Lys Tyr Lys Lys Gln Ile Ser Asn Ser Lys Leu Phe Phe Ile 450 455 460			1392
aga ttg tca aat aat tta ttt ata gca gtt tat aat gaa aaa gaa caa Arg Leu Ser Asn Asn Leu Phe Ile Ala Val Tyr Asn Glu Lys Glu Gln 465 470 475 480			1440
tat gcc gaa gaa aga caa cta aac atg ttt ata ata ttc gga ata tct Tyr Ala Glu Glu Arg Gln Leu Asn Met Phe Ile Ile Phe Gly Ile Ser 485 490 495			1488
tta tta tta tta agt aat ttt aat gaa tta ata ggt ata ata aaa aat Leu Leu Leu Leu Ser Asn Phe Asn Glu Leu Ile Gly Ile Ile Lys Asn 500 505 510			1536
aat aaa aaa tta aaa act ata ttt gat aat caa aat gat att aaa ata Asn Lys Lys Leu Lys Thr Ile Phe Asp Asn Gln Asn Asp Ile Lys Ile 515 520 525			1584

aat tta gat aat ttt ata aaa gat act gta ttc ata tat ata agt agg	1632
Asn Leu Asp Asn Phe Ile Lys Asp Thr Val Phe Ile Tyr Ile Ser Arg	
530 535 540	
aat aga tta ata gat aaa aaa agt aga gaa ttg att aat tat gat act	1680
Asn Arg Leu Ile Asp Lys Lys Ser Arg Glu Leu Ile Asn Tyr Asp Thr	
545 550 555 560	
ata att gat gtt tat tta aat ata tta act ccc gaa tta aaa tog tgt	1728
Ile Ile Asp Val Tyr Leu Asn Ile Leu Thr Pro Glu Leu Lys Ser Cys	
565 570 575	
tat aat ata ata tta aat aga tta tat aaa aat ata gat att tta aaa	1776
Tyr Asn Ile Ile Leu Asn Arg Leu Tyr Lys Asn Ile Asp Ile Leu Lys	
580 585 590	
tat gat tat ata gaa tta cca gat att cca tta cta ccc gta aca tta	1824
Tyr Asp Tyr Ile Glu Leu Pro Asp Ile Pro Leu Leu Pro Val Thr Leu	
595 600 605	
gga tat aaa cac aaa aat att gat act ggt cct aca ata tct ttt tta	1872
Gly Tyr Lys His Lys Asn Ile Asp Thr Gly Pro Thr Ile Ser Phe Leu	
610 615 620	
cca ctc gaa gat gta att aat tat aat aat gta aat att tat gaa agt	1920
Pro Leu Glu Asp Val Ile Asn Tyr Asn Asn Val Asn Ile Tyr Glu Ser	
625 630 635 640	
aat att aga tat att aca tac gat acg tta aaa att aaa aat tta tct	1968
Asn Ile Arg Tyr Ile Thr Tyr Asp Thr Leu Lys Ile Lys Asn Leu Ser	
645 650 655	
gat ttt gat att aaa gat ata aat gtt gaa tta aaa act ata att gaa	2016
Asp Phe Asp Ile Lys Asp Ile Asn Val Glu Leu Lys Thr Ile Ile Glu	
660 665 670	
aga ttt aat tct gaa tat tac tat aga aat att agt ata tta aac ttt	2064
Arg Phe Asn Ser Glu Tyr Tyr Tyr Arg Asn Ile Ser Ile Leu Asn Phe	
675 680 685	
gaa cag atg gat aat tat aat ttt tat ata gat ata gga caa aaa tat	2112
Glu Gln Met Asp Asn Tyr Asn Phe Tyr Ile Asp Ile Gly Gln Lys Tyr	
690 695 700	
ttt ttt tat ata aat gat gta tta tog aat agt aat att gta ata aaa	2160
Phe Phe Tyr Ile Asn Asp Val Leu Ser Asn Ser Asn Ile Val Ile Lys	
705 710 715 720	
agt aat att tat tct aaa ata atg aat ttt ggt gat tct ttg cca ttt	2208
Ser Asn Ile Tyr Ser Lys Ile Met Asn Phe Gly Asp Ser Leu Pro Phe	
725 730 735	
tta aat aaa ata tat aaa ttt cat tat aca tta tta ttt gat aat ctg	2256
Leu Asn Lys Ile Tyr Lys Phe His Tyr Thr Leu Leu Phe Asp Asn Leu	
740 745 750	
aat tta tta ata aat ttt tta tat ccg aat gtt aaa att ata ttt aat	2304
Asn Leu Leu Ile Asn Phe Leu Tyr Pro Asn Val Lys Ile Ile Phe Asn	

755	760	765	
tat gat caa gat tat ata act aga gat tat ttt cat tat att gtt tat			1352
Tyr Asp Gln Asp Tyr Ile Thr Arg Asp Tyr Phe His Tyr Ile Val Tyr			
770	775	780	
aat ata tta att tca tta att aat act aat ata tta tca tgg ata gat			1400
Asn Ile Leu Ile Ser Leu Ile Asn Thr Asn Ile Leu Ser Trp Ile Asp			
785	790	795	800
gta aac aaa gat ata ata tct aaa tta tat gat aat act tta aga ttt			1448
Val Asn Lys Asp Ile Ile Ser Lys Leu Tyr Asp Asn Thr Leu Arg Phe			
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Tyr Val Lys Asn Ile Tyr			
	820		
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-1213- Amsacta moorei entomopoxvirus			
-1220-			
-1221- exon			
-1222- (1)..(1410)			
-1400- 33			
atg gtt aaa tat att aaa tta aat aaa aaa ata ttt aat tat ata aaa			48
Met Val Lys Tyr Ile Lys Leu Asn Lys Lys Ile Phe Asn Tyr Ile Lys			
1	5	10	15
tca aga tta aaa tca caa gaa ata tta ata tat gat aaa aat tct aat			96
Ser Arg Leu Lys Ser Gln Glu Ile Leu Ile Tyr Asp Lys Asn Ser Asn			
	20	25	30
cat gct ata att aca aat gat atg ata gaa aat att gat tta gat ata			144
His Ala Ile Ile Thr Asn Asp Met Ile Glu Asn Ile Asp Leu Asp Ile			
	35	40	45
ata tgt cgg ttg att ttg tat aac gaa aat gat aaa att att gac aaa			192
Ile Cys Pro Leu Ile Leu Tyr Asn Glu Asn Asp Lys Ile Ile Asp Lys			
	50	55	60
att aat aat atg gat aaa ttt att gag tgt aaa tat caa tta agg gaa			240
Ile Asn Asn Met Asp Lys Phe Ile Glu Cys Lys Tyr Gln Leu Arg Glu			
	65	70	75
gat caa tta gag tta att aat aat ata atg aat att aat aat aat tat			288
Asp Gln Leu Glu Leu Ile Asn Asn Ile Met Asn Ile Asn Asn Asn Tyr			
	85	90	95
tct tgt aat tca ccc ata tat tta tca tta gta tgt cct tgt gga tat			336
Ser Cys Asn Ser Pro Ile Tyr Leu Ser Leu Val Cys Pro Cys Gly Tyr			
	100	105	110
ggg aaa act ata ttg ggt ata gat ata ata tct aga tta aaa tac aaa			384

Gly	Lys	Thr	Ile	Leu	Gly	Ile	Asp	Ile	Ile	Ser	Arg	Leu	Lys	Tyr	Lys		
		115					120					125					
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Cys	Ala	Ile	Ile	Val	Pro	Arg	Ile	Phe	Ile	Ile	Tyr	Gln	Trp	Leu	Asp		
	130					135					140						
aaa	ata	aaa	caa	aaa	aat	aat	ata	ttt	gca	tct	acg	tgt	ggt	aga	aaa	480	
Lys	Ile	Lys	Gln	Lys	Asn	Asn	Ile	Phe	Ala	Ser	Thr	Cys	Gly	Arg	Lys		
145					150					155					160		
aaa	ggg	att	gaa	caa	ata	aaa	aat	ggg	tta	gag	tgt	gat	gtg	ttt	ata	528	
Lys	Ala	Ile	Glu	Gln	Ile	Lys	Asn	Gly	Leu	Glu	Cys	Asp	Val	Phe	Ile		
			165						170					175			
tgt	cct	gat	aaa	cat	tta	gaa	aat	gat	att	att	aga	aat	tat	ata	tat	576	
Cys	Pro	Asp	Lys	His	Leu	Glu	Asn	Asp	Ile	Ile	Arg	Asn	Tyr	Ile	Tyr		
			180					185					190				
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Asn	Thr	Cys	Ser	Leu	Val	Ile	Val	Asp	Glu	Ala	His	Arg	Tyr	Asn	Ala		
		195					200					205					
aat	aaa	aat	ata	gta	atg	act	aga	ttt	tta	tat	aat	aaa	ata	ttt	aaa	672	
Asn	Lys	Asn	Ile	Val	Met	Thr	Arg	Phe	Leu	Tyr	Asn	Lys	Ile	Phe	Lys		
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ttt	tgt	ttg	ttt	tta	act	gct	acg	cca	tct	aat	aat	atg	aat	act	ttt	720	
Phe	Cys	Leu	Phe	Leu	Thr	Ala	Thr	Pro	Ser	Asn	Asn	Met	Asn	Thr	Phe		
225					230					235					240		
ata	aat	gaa	ttt	att	gat	att	aat	aat	caa	tca	cag	att	aaa	ata	tta	768	
Ile	Asn	Glu	Phe	Ile	Asp	Ile	Asn	Asn	Gln	Ser	Gln	Ile	Lys	Ile	Leu		
			245						250					255			
aat	gat	att	aaa	aaa	aaa	tta	att	ata	ttt	aat	ttg	aaa	gat	aaa	ata	816	
Asn	Asp	Ile	Lys	Lys	Lys	Leu	Ile	Ile	Phe	Asn	Leu	Lys	Asp	Lys	Ile		
			260					265					270				
ttt	act	cca	att	aat	aat	aat	tgt	aaa	tat	tat	gtt	aat	aaa	ata	aca	864	
Phe	Thr	Pro	Ile	Asn	Asn	Asn	Cys	Lys	Tyr	Tyr	Val	Asn	Lys	Ile	Thr		
		275					280					285					
aat	aat	aaa	ttc	aat	aat	ata	tat	ata	aaa	aat	ttt	aat	tac	aaa	tat	912	
Asn	Asn	Lys	Phe	Asn	Asn	Ile	Tyr	Ile	Lys	Asn	Phe	Asn	Tyr	Lys	Tyr		
		290				295					300						
tgt	att	tct	ctt	gat	gat	aaa	aga	aat	gaa	att	att	ata	gat	tta	ata	960	
Cys	Ile	Ser	Leu	Asp	Asp	Lys	Arg	Asn	Glu	Ile	Ile	Ile	Asp	Leu	Ile		
	305				310					315					320		
tta	aaa	aca	act	acg	gat	aat	aca	aaa	tgt	tta	att	ttg	aca	gat	tat	1008	
Leu	Lys	Thr	Thr	Thr	Asp	Asn	Thr	Lys	Cys	Leu	Ile	Leu	Thr	Asp	Tyr		
			325						330					335			
aga	tta	cac	atg	atg	aat	ata	tat	aat	tta	tta	aaa	aaa	aca	cac	tta	1056	
Arg	Leu	His	Met	Met	Asn	Ile	Tyr	Asn	Leu	Leu	Lys	Lys	Thr	His	Leu		
			340					345					350				

caa aat ata att tat ata tat gat gta aaa aat aaa aaa tgt aat gat 1104
Gln Asn Ile Ile Tyr Ile Tyr Asp Val Lys Asn Lys Lys Cys Asn Asp
355 360 365

ttg tta aca gaa att aaa aat aag aat gaa aaa ttt att att ata tca 1181
Leu Leu Thr Glu Ile Lys Asn Lys Asn Glu Lys Phe Ile Ile Ile Ser
370 375 380

act ata tct gct tgt tct gaa tca tta gat att aat aat tta aat act 1200
Thr Ile Ser Ala Cys Ser Glu Ser Leu Asp Ile Asn Asn Leu Asn Thr
385 390 395 400

ttt cat gtt tta tta cct att act aat tct aaa aca ata aaa caa tgc 1248
Phe His Val Leu Leu Pro Ile Thr Asn Ser Lys Thr Ile Lys Gln Cys
405 410 415

ata ggt aga att atg aga aat atg aac gaa gat aaa tat act tat ata 1296
Ile Gly Arg Ile Met Arg Asn Met Asn Glu Asp Lys Tyr Thr Tyr Ile
420 425 430

tat aat ttt tct aac atc aat aac atg att aat atg tat att aat gat 1344
Tyr Asn Phe Ser Asn Ile Asn Asn Met Ile Asn Met Tyr Ile Asn Asp
435 440 445

aaa act gat tta ata aga aaa gta ttg tct gat tgg gaa tgt gta gaa 1392
Lys Thr Asp Leu Ile Arg Lys Val Leu Ser Asp Trp Glu Cys Val Glu
450 455 460

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Ile Lys Cys Ser Tyr
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gct ggt aga gtt aga tac ata gat aat ttt ata gct gga gct aca aat 96
Ala Gly Arg Val Arg Tyr Ile Asp Asn Phe Ile Ala Gly Ala Thr Asn
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att cca gat aat aaa act att ttt aaa ata att gga gga aaa ggt gtt 144
Ile Pro Asp Asn Lys Thr Ile Phe Lys Ile Ile Gly Gly Lys Gly Val
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ttt tta aaa act aat agt cca tat aac act ata cca tat aca tca cct 192
Phe Leu Lys Thr Asn Ser Gln Tyr Asn Thr Ile Pro Tyr Thr Ser Pro
50 55 60

act aaa aaa aaa aat aat tac tta gtc tat aat ata tat gat ttg cga 240
Thr Lys Lys Lys Asn Asn Tyr Leu Val Tyr Asn Ile Tyr Asp Leu Arg
65 70 75 80

gat tat att agt gaa aat tca aaa ttc tgg ata aat gat ttt atg aat 288
Asp Tyr Ile Ser Glu Asn Ser Lys Phe Ser Ile Asn Asp Phe Met Asn
85 90 95

aat att aat aat tgg tca caa aat aat aga att atg gtt ctg agt ggt 336
Asn Ile Asn Asn Ser Ser Gln Asn Asn Arg Ile Met Val Leu Ser Gly
100 105 110

gat aca aaa tat aaa ata aga aat cct aat aga tta ata ttt tct gat 384
Asp Thr Lys Tyr Lys Ile Arg Asn Pro Asn Arg Leu Ile Phe Ser Asp
115 120 125

aca tct tat cct att tta gtt act tat aat tta aat gat aaa att aat 432
Thr Ser Tyr Pro Ile Leu Val Thr Tyr Asn Leu Asp Lys Ile Asn
130 135 140

ata tct atc gaa aac cca aat gaa aaa gta gaa aaa tat gaa ata ccc 480
Ile Ser Ile Glu Asn Pro Asn Glu Lys Val Glu Lys Tyr Glu Ile Pro
145 150 155 160

gaa gat gtt tgc tat gtc tat aaa caa aaa gat aca tat gta atg tgg 528
Glu Asp Val Cys Tyr Val Tyr Lys Gln Lys Asp Thr Tyr Val Met Ser
165 170 175

gtt aat gtt aaa cgt ttg acg cca gta gat ata tat tat att act acc 576
Val Asn Val Lys Arg Leu Thr Pro Val Asp Ile Tyr Tyr Ile Thr Thr
180 185 190

gaa gtt gat caa aat aat tca aat aat ata aaa tct ata aaa ata gaa 624
Glu Val Asp Gln Asn Asn Ser Asn Asn Ile Lys Ser Ile Lys Ile Glu
195 200 205

gat aca tca gaa cct tta gaa ata cac cca tct tat aga aaa ata tta 672
Asp Thr Ser Glu Pro Leu Glu Ile His Pro Ser Tyr Arg Lys Ile Leu
210 215 220

gta aca aaa tta gtg gat ttt att aat caa aat ata aaa cca act aat 720
Val Thr Lys Leu Val Asp Phe Ile Asn Gln Asn Ile Lys Pro Thr Asn
225 230 235 240

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tgc gat cct aga ttg gat ata aaa tct aaa gtt ttg att aat gta gaa 96
 Cys Asp Pro Arg Leu Asp Ile Lys Ser Lys Val Leu Ile Asn Val Glu
 20 25 30

tta cca ttt aaa aat tta aat tat gat ttg cct acg tta ttt aat aga 144
 Leu Pro Phe Lys Asn Leu Asn Tyr Asp Leu Pro Thr Leu Phe Asn Arg
 35 40 45

gaa gaa gtt ata tat aca aag ata agt aaa tca gga cat gaa gat gtc 192
 Glu Glu Val Ile Tyr Thr Lys Ile Ser Lys Ser Gly His Glu Asp Val
 50 55 60

ata atg aaa ata aca tac gaa ggt aaa gaa gat aat aaa aaa agt tat 240
 Ile Met Lys Ile Thr Tyr Glu Gly Lys Glu Asp Asn Lys Lys Ser Tyr
 65 70 75 80

tta tat tcc agt tta gat aat aaa gga ttt tat aca tat atc tct att 288
 Leu Tyr Ser Ser Leu Asp Asn Lys Gly Phe Tyr Thr Tyr Ile Ser Ile
 85 90 95

tct att tct ata tat aga aaa ata aca tca tta aat aat aaa ata gaa 336
 Ser Ile Ser Ile Tyr Arg Lys Ile Thr Ser Leu Asn Asn Lys Ile Glu
 100 105 110

tat aaa ata ata tct aat aaa aca tat tgc cat aca gaa ata aga ata 384
 Tyr Lys Ile Ile Ser Asn Lys Thr Tyr Ser His Thr Glu Ile Arg Ile
 115 120 125

cct cag tat ata gct cac ggt gga aat aca tca gaa aat gat aat tct 432
 Pro Gln Tyr Ile Ala His Gly Gly Asn Thr Ser Glu Asn Asp Asn Ser
 130 135 140

ata aca caa tca aat aat cct ggt gga ttt ttt aat gtt tca aaa agt 480
 Ile Thr Gln Ser Asn Asn Pro Gly Gly Phe Phe Asn Val Ser Lys Ser
 145 150 155 160

tta aaa aaa atg gta act act aga ata gaa caa aca tat att tat cca 528
 Leu Lys Lys Met Val Thr Thr Arg Ile Glu Gln Thr Tyr Ile Tyr Pro
 165 170 175

aaa cgt aaa aaa act caa aaa gca tat act tat cat ctg gca ttc att 576
 Lys Arg Lys Lys Thr Gln Lys Ala Tyr Thr Tyr His Leu Ala Phe Ile
 180 185 190

agt aaa aaa cca tca ttt atg atg ata aat gaa aaa tta aac cag cca 624
 Ser Lys Lys Pro Ser Phe Met Met Ile Asn Glu Lys Leu Asn Pro Pro
 195 200 205

cag ttt tta act tta gat ata gat ttt aat cca gat aaa ata aaa tgt 672
 Gln Phe Leu Thr Leu Asp Ile Asp Phe Asn Pro Asp Lys Ile Lys Cys
 210 215 220

gta ata gat tct aaa aaa aca ttc tta caa att gat atc ata gca tta 720

Val 225	Ile	Asp	Ser	Lys	Lys 230	Thr	Phe	Leu	Gln	Ile 235	Asp	Ile	Ile	Ala	Leu 240	
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Ile	Ile	Ala	Leu	Ser	Asn	Asp	Asn	Ile	Asp	Val	Val	Tyr	Lys	Lys	Ile	
				245					250					255		
agt	tct	ggt	ttt	agt	gat	gat	ata	tct	gat	tca	atc	aaa	ata	tta	ata	816
Ser	Ser	Gly	Phe	Ser	Asp	Asp	Ile	Ser	Asp	Ser	Ile	Lys	Ile	Leu	Ile	
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gaa	aat	act	aaa	aat	att	tta	tct	gaa	tat	aat	aat	gat	gac	aga	caa	864
Glu	Asn	Thr	Lys	Asn	Ile	Leu	Ser	Glu	Tyr	Asn	Asn	Asp	Ala	Arg	Gln	
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Tyr	Val	Asp	Lys	Ile	Ile	Glu	Ile	Asn	Tyr	Ile	Lys	Lys	Tyr	Pro	Lys	
	290					295					300					
aat	gaa	ata	act	tta	caa	gat	tat	ttt	aat	aat	att	ttc	aat	gat	ttt	960
Asn	Glu	Ile	Thr	Leu	Gln	Asp	Tyr	Phe	Asn	Asn	Ile	Phe	Asn	Asp	Phe	
305					310					315					320	
ctt	cct	cat	ata	ggc	cga	gga	aaa	tat	aat	gaa	aaa	tgt	atg	tat	atg	1008
Leu	Pro	His	Ile	Gly	Arg	Gly	Lys	Tyr	Asn	Glu	Lys	Cys	Met	Tyr	Met	
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att	agt	att	tta	aga	caa	tct	ttt	gtt	tct	ata	ttt	caa	tca	gat	gtt	1056
Ile	Ser	Ile	Leu	Arg	Gln	Ser	Phe	Val	Ser	Ile	Phe	Gln	Ser	Asp	Val	
			340					345					350			
tat	cca	gat	aaa	gat	aat	tta	gct	act	aga	aga	att	tca	act	gct	gct	1104
Tyr	Pro	Asp	Lys	Asp	Asn	Leu	Ala	Thr	Arg	Arg	Ile	Ser	Thr	Ala	Ala	
		355					360					365				
gat	att	ttt	gag	aat	ata	ata	agg	act	tct	att	gat	aat	tct	ttc	gaa	1152
Asp	Ile	Phe	Glu	Asn	Ile	Ile	Arg	Thr	Ser	Ile	Asp	Asn	Ser	Phe	Glu	
	370					375					380					
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Leu	Ala	Arg	Asp	Lys	Tyr	Lys	Thr	Tyr	Ile	Ser	Gly	Ser	Gly	Lys	Asn	
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aat	aat	ata	aat	aat	att	tta	tct	caa	gtt	aaa	tta	tta	cca	caa	ata	1248
Asn	Asn	Ile	Asn	Asn	Ile	Leu	Ser	Gln	Val	Lys	Leu	Leu	Pro	Gln	Ile	
			405						410					415		
aca	caa	gag	ttt	aat	aat	ttt	ttc	aat	atg	caa	gat	act	aaa	aat	agt	1296
Thr	Gln	Ala	Phe	Asn	Asn	Phe	Phe	Asn	Met	Gln	Asp	Thr	Lys	Asn	Ser	
			420					425					430			
gat	gtt	gta	aaa	ata	gga	acc	cac	tca	aat	tgg	gct	gaa	tct	att	tat	1344
Asp	Val	Val	Lys	Ile	Gly	Thr	His	Ser	Asn	Trp	Ala	Glu	Ser	Ile	Tyr	
		435					440					445				
att	tct	aat	gct	gta	gaa	aga	ggt	gtt	agt	ata	gaa	tta	aca	aaa	tca	1392
Ile	Ser	Asn	Ala	Val	Glu	Arg	Gly	Val	Ser	Ile	Glu	Leu	Thr	Lys	Ser	
	450					455					460					

cta act caa aga aaa tta cac gca tca tca att aat gta tta gat atg	1440
Leu Thr Gln Arg Lys Leu His Ala Ser Ser Ile Asn Val Leu Asp Met	
465 470 475 480	
atg gat aca cct gat cat ggt aca aaa act ggt ctt gta aaa aga tta	1488
Met Asp Thr Pro Asp His Gly Thr Lys Thr Gly Leu Val Lys Arg Leu	
485 490 495	
tgt ata agt aca tta ata tca cac tat cct ata cat att aga aaa caa	1536
Cys Ile Ser Thr Leu Ile Ser His Tyr Pro Ile His Ile Arg Lys Gln	
500 505 510	
tta ttt gaa gaa gtt aga gaa ttt ata gaa aac aag gtt aaa cat aca	1584
Leu Phe Glu Glu Val Arg Glu Phe Ile Glu Asn Lys Val Lys His Thr	
515 520 525	
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Leu Lys Glu Asp Ile Ile Ser Gly Val Phe Ile Ser Ile Ile Asp Glu	
530 535 540	
tct gaa cac gta ata gct cgt ata aaa aat tca gaa act gaa tct ttt	1680
Ser Glu His Val Ile Ala Arg Ile Lys Asn Ser Glu Thr Glu Ser Phe	
545 550 555 560	
ata aaa gat tta aaa tat gca aaa ata tca gga tta ttt gtt aaa aat	1728
Ile Lys Asp Leu Lys Tyr Ala Lys Ile Ser Gly Leu Phe Val Lys Asn	
565 570 575	
gat ata ggt ata gaa ata tta aaa ttt cat gaa tta gat aat aac aaa	1776
Asp Ile Gly Ile Glu Ile Leu Lys Phe His Glu Leu Asp Asn Asn Lys	
580 585 590	
caa ata tat gta cca aca gat aga tat ttt caa ata aga ata aat gtt	1824
Gln Ile Tyr Val Pro Thr Asp Arg Tyr Phe Gln Ile Arg Ile Asn Val	
595 600 605	
ggt aat aaa aga gca aca caa cca gta ttt aga gta gaa aat ggc gaa	1872
Gly Asn Lys Arg Ala Thr Gln Pro Val Phe Arg Val Glu Asn Gly Glu	
610 615 620	
tta gca ttt aat aaa tat cct aat tta cat gct gaa tta aaa gag agt	1920
Leu Ala Phe Asn Lys Tyr Pro Asn Leu His Ala Glu Leu Lys Glu Ser	
625 630 635 640	
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Asn Ser Tyr Thr Asp Phe Val Thr Lys Tyr Tyr Asp Ile Ile Glu Val	
645 650 655	
att gac gta gga caa atg ata tat tca aat atg tgt aac aca gtt aca	2016
Ile Asp Val Gly Gln Met Ile Tyr Ser Asn Met Cys Asn Thr Val Thr	
660 665 670	
gaa ttt aat agt tac agt tta gaa caa aga aaa aaa tat gat tat gtt	2064
Glu Phe Asn Ser Tyr Ser Leu Glu Gln Arg Lys Lys Tyr Asp Tyr Val	
675 680 685	
aga tta cca aat tat tta tat ttt agt tat tta aca tcc act ggt tgt	2112
Arg Leu Pro Asn Tyr Leu Tyr Phe Ser Tyr Leu Thr Ser Thr Gly Cys	

690	695	700	
atg tat gat att ggt aaa Met Tyr Asp Ile Gly Lys 705	atg acg ggt gtt aga Met Thr Gly Val Arg 710	ggg aca ttt gga aca Gly Thr Phe Gly Thr 715	2160
gcc caa agt aaa cat att Ala Gln Ser Lys His Ile 725	ata aca gga cct cca Ile Thr Gly Pro Pro 730	gat aat gta atg aat Asp Asn Val Met Asn 735	2208
aaa tat gat aca tgt aac Lys Tyr Asp Thr Cys Asn 740	tat tta gca tat cct Tyr Leu Ala Tyr Pro 745	ata gaa aga cca tca Ile Glu Arg Pro Ser 750	2256
ata act aat att cct atg Ile Thr Asn Ile Pro 755	gaa ata tct ggt ata Glu Ile Ser Gly Ile 760	gca aga aat agt ata Ala Arg Asn Ser Ile 765	2304
ggg aca cat gtt tta gtg Gly Thr His Val Leu Val 770	gga ttc ttt agt ttt Gly Phe Phe Ser Phe 775	aat tac aac gta gaa Asn Tyr Asn Val Glu 780	2352
gat ggc gtt att gta aat Asp Gly Val Ile Val 785	aaa gaa tgg ata aat Lys Glu Ser Ile Asn 790	aga gga tta tta tct Arg Gly Leu Leu Ser 795	2400
gta ata tca tta atg tct Val Ile Ser Leu Met 805	gta aaa aat gaa tta Val Lys Asn Glu Leu 810	tct gat aca caa ata Ser Asp Thr Gln Ile 815	2448
aac aat aat aat cca Asn Asn Asn Asn Pro 820	agt gca gaa aat tct Ser Ala Glu Asn Ser 825	aat aat aat tat tct Asn Asn Asn Tyr Ser 830	2496
ata tca gca aca ggt ttg Ile Ser Ala Thr Gly 835	cca tca ata gga act Pro Ser Ile Gly Thr 840	gtt tta gta caa ggt Val Leu Val Gln Gly 845	2544
gat ggc tta tac aga tgt Asp Ala Leu Tyr Arg 850	tta aaa cca aaa ttt Leu Lys Pro Lys Phe 855	aaa aat gat gat gat Lys Asn Asp Asp Asp 860	2592
aat aga tat ata ttt gat Asn Arg Tyr Ile Phe 865	caa tct gaa aca cta Gln Ser Glu Thr Leu 870	tct aat act tat cca Ser Asn Thr Tyr Pro 875	2640
gcc gtg gta gaa aga aca Ala Val Val Glu Arg 885	aga aaa caa ggt aca Arg Lys Gln Gly Thr 890	gat tta ata aag att Asp Leu Ile Lys Ile 895	2688
gat atg cta ttg tca tca Asp Met Leu Leu Ser 900	tat aga aga ttg agt Tyr Arg Arg Leu Ser 905	gta gga gat aaa ata Val Gly Asp Lys Ile 910	2736
gca aaa tct gta caa aaa Ala Lys Ser Val Gln 915	gtt act gtt tca aaa Val Thr Val Ser Lys 920	att atg gaa gaa gaa Ile Met Glu Glu Glu 925	2784

gat atg cct tat aat gaa aat ggc gaa aga cct gat ata ata ttt aat Asp Met Pro Tyr Asn Glu Asn Gly Glu Arg Pro Asp Ile Ile Phe Asn 930 935 940	2831
agt cct agt att ata agt aga aaa act ctt cct ttg tat gac gaa gtt Ser Pro Ser Ile Ile Ser Arg Lys Thr Leu Pro Leu Tyr Asp Glu Val 945 950 955 960	2880
tct tta tgt aat atg ttc tca aaa ata cca tat aat gat aaa tgt gat Ser Leu Cys Asn Met Phe Ser Lys Ile Pro Tyr Asn Asp Lys Cys Asp 965 970 975	2928
gta gaa tat att aat tat cct ata tat act gat aaa agt cct ttg gat Val Glu Tyr Ile Asn Tyr Pro Ile Tyr Thr Asp Lys Ser Pro Leu Asp 980 985 990	2976
aaa tat aat ttt atc aaa aaa gaa tta aaa aaa ata tat aat aat gta Lys Tyr Asn Phe Ile Lys Lys Glu Leu Lys Lys Ile Tyr Asn Asn Val 995 1000 1005	3024
act gac gaa gaa tta gaa aat att ata tat tgt cga caa aca tta Thr Asp Glu Glu Leu Glu Asn Ile Ile Tyr Cys Arg Gln Thr Leu 1010 1015 1020	3069
tat cac cca tat aca aaa aaa cct atg act ata aaa gaa ggt gat Tyr His Pro Tyr Thr Lys Lys Pro Met Thr Ile Lys Glu Gly Asp 1025 1030 1035	3114
aaa gaa act aaa tca ttt atg gga cct atg tta ttc tgt aga tta Lys Glu Thr Lys Ser Phe Met Gly Pro Met Leu Phe Cys Arg Leu 1040 1045 1050	3159
tca caa atg tgc gca gat aaa ata tca gta aga aat aga ggc aga Ser Gln Met Ser Ala Asp Lys Ile Ser Val Arg Asn Arg Gly Arg 1055 1060 1065	3204
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ggt att aaa atc gga gaa atg gaa agt gat gtt ttt gct aca aat Gly Ile Lys Ile Gly Glu Met Glu Ser Asp Val Phe Ala Thr Asn 1085 1090 1095	3294
gga tct gta tat gca ata cat gaa tta caa tca gat cct gat gaa Gly Ser Val Tyr Ala Ile His Glu Leu Gln Ser Asp Pro Asp Glu 1100 1105 1110	3339
ttt tat tta cca gct cat ata tgt gga aat tgt gga ata ttt gct Phe Tyr Leu Pro Ala His Ile Cys Gly Asn Cys Gly Ile Phe Ala 1115 1120 1125	3384
act tat gaa gaa aat ata gaa gta aaa aga tgg aaa tgt cta cag Thr Tyr Glu Glu Asn Ile Glu Val Lys Arg Trp Lys Cys Leu Gln 1130 1135 1140	3429
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1145	1150	1155	
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ata tct cta atc cct gta aaa gat aat cag tct ata cgt tat att			3564
Ile Ser Leu Ile Pro Val Lys Asp Asn Gln Ser Ile Arg Tyr Ile			
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tct gac gat aat act att aat act taa			3591
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1 5 10 15			
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Asn His Ser Thr Glu Glu Ile Lys Asn Phe Leu Ile Asp Asn Asn Ile			
20 25 30			
aaa tgt ata ata aca ata tgg aat ttt aat aaa tta aat ata aaa aaa			144
Lys Cys Ile Ile Thr Ile Trp Asn Phe Asn Lys Leu Asn Ile Lys Lys			
35 40 45			
tta aat att aat gtt aaa gat tat atg tat ata cac gca tat gat cta			192
Leu Asn Ile Asn Val Lys Asp Tyr Met Tyr Ile His Ala Tyr Asp Leu			
50 55 60			
aca aat gaa ata att att gat tat ttt gat att act aac aaa ttt ata			240
Thr Asn Glu Ile Ile Ile Asp Tyr Phe Asp Ile Thr Asn Lys Phe Ile			
65 70 75 80			
att aat aaa ata aaa gaa ggt aag aaa gta tta att cat tgt tat gct			288
Ile Asn Lys Ile Lys Glu Gly Lys Lys Val Leu Ile His Cys Tyr Ala			
85 90 95			
ggt ata tca aga tct gca agt ata gtt att aat tat ttt atg aat aaa			336
Gly Ile Ser Arg Ser Ala Ser Ile Val Ile Asn Tyr Phe Met Asn Lys			
100 105 110			
tat aat ata aat tat gac gaa gct gaa aaa ata gtt agt aaa aaa cga			384
Tyr Asn Ile Asn Tyr Asp Glu Ala Glu Lys Ile Val Ser Lys Lys Arg			
115 120 125			
aat ata aaa cca aat ata ttt ttt ata ctt caa tta aaa ttt tat aat			432

Asn Ile Lys Pro Asn Ile Phe Phe Ile Leu Gln Leu Lys Phe Tyr Asn
 130 135 140
 tca tat aaa aat ata aat att att tat tta att ata tta ttt got att 480
 Ser Tyr Lys Asn Ile Asn Ile Ile Tyr Leu Ile Ile Leu Phe Ala Ile
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 aag tta aat cct aat aat ata ttg gtg ata gac ggt aca tat aga gct 96
 Lys Leu Asn Pro Asn Asn Ile Leu Val Ile Asp Gly Thr Tyr Arg Ala
 20 25 30
 gcc tat aat gat tat tat tct gtt agt aat aaa ttg cca tct att aaa 144
 Ala Tyr Asn Asp Tyr Tyr Ser Val Ser Asn Lys Leu Pro Ser Ile Lys
 35 40 45
 aca gaa aaa ggt gga tta gca aaa tat cca aaa aaa tta ttt att aga 192
 Thr Glu Lys Gly Gly Leu Ala Lys Tyr Pro Lys Lys Leu Phe Ile Arg
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 Asn Gly Tyr Tyr Lys
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 1 5 10 15
 ccc gaa tta cat aat aaa tat aac tat att tca cat tta tta ttt cct 96

Pro	Glu	Leu	His	Asn	Lys	Tyr	Asn	Tyr	Ile	Ser	His	Leu	Leu	Phe	Pro	
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gat	ttt	tta	ata	gat	gga	ata	gat	ata	aat	aat	aat	att	ata	act	att	336
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Arg	Ser	Asn	Gly	Ser	Thr	Ile	Thr	Tyr	Ser	Ala	Tyr	Ala	Tyr	Ala	Thr	
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Ile	Leu	Tyr	Asp	Leu	Pro	Tyr	Arg	Leu	Gly	Asn	Leu	Asp	Ile	Asn	Gln	
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 Tyr Thr Lys Asn Asn Val Ala Ile Lys Phe Phe Arg Asn Asn Asp Asn
 35 40 45
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 Phe Thr His Glu Ile Asn Ile Leu Asn Tyr Ile Lys Lys Lys Ile Tyr
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 Leu Leu Asn Gln Asp Ile Leu Asn Ile Ser Leu Gln Ile Cys Asn Gly
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 Leu Lys Tyr Leu His Lys Asn Ser Ile Val His Cys Asp Leu Lys Pro
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 Thr Asp Phe Gly Leu Ser Tyr Ile Glu Asn Asn Ile Ile Asp Tyr Glu
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Ile Val Thr Phe Ser Tyr Arg Ser Pro Glu Leu Ile Cys Thr Ile Asn	
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Asn Lys Asn Asn Ile Ile Val Lys Ser Ser Ile Asp Met Trp Ser Phe	
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Gly Val Ile Ile Tyr Phe Leu Ile Asn Lys Phe Tyr Phe Asp Ile Tyr	
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Asn Ile Glu Lys Tyr Ile Glu Ser Asn Pro Ile Lys Lys Leu Cys Asn	
225 230 235 240	
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Glu Ser Lys Ile Asp Leu Ile Leu Asn Asp Lys Thr Ser Lys Asp Leu	
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Val Lys Ile Ser Ile Ser Lys Ile Cys Arg Ser Ile Leu Lys Tyr Lys	
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Tyr Glu Ile Asp Asp Val Lys Lys Tyr Ile Lys Glu Phe Lys Lys Phe	
85 90 95	

ata tca tat gaa ttg tat aat ata ttt tct aat aat ttt gat ata gag	336
Ile Ser Tyr Glu Leu Tyr Asn Ile Phe Ser Asn Asn Phe Asp Ile Glu	
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Asn His Asn Ile Asp Asn Ile Lys Lys Phe Ile Phe Asn Asn Ile Tyr	
115 120 125	
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Tyr Thr Leu Ser Asp Asn Pro His Lys Leu Ser Leu His Ile Phe Phe	
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Ile Ile Asn Leu Arg Ser Lys Ile Asn Asn Ile Leu Ile Asn Asn Ile	
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Asp Leu Ala Pro Phe Arg Arg Asn Thr Gln Leu Arg Phe Ile Tyr Ser	
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Lys Lys Asn Asp Ser Glu Tyr Phe His Ser Glu His Asp Tyr Asn Ile	
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gaa aat ata gaa gat tta aaa aaa tat ata ata aca tat aaa aat ttt	672
Glu Asn Ile Glu Asp Leu Lys Lys Tyr Ile Ile Thr Tyr Lys Asn Phe	
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Leu Asp Val Ile Tyr Pro His Ile Lys Tyr Phe Arg Gly Pro His Phe	
245 250 255	
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Ser Asp Asp Ser Ile Gln Leu Phe Lys Lys Lys His Ser Ala Glu Leu	
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Asp Glu Ile Ile Asp Ile Asn Leu Ile Phe Asn Thr Pro Asp Cys Lys	
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Tyr Gln Asn Tyr Ile Pro Lys Asn Ser Pro Asn Ser Trp Leu Gly Lys
565 570 575

gta gaa gat aaa tta gtt tct ttt gct tgg gaa ggt gat gtt aat cga 1776
Val Glu Asp Lys Leu Val Ser Phe Ala Ser Glu Gly Asp Val Asn Arg
580 585 590

aat gaa gta ttt cta aac aaa aat ata aaa caa tat aca gaa caa tat 1824
Asn Glu Val Phe Leu Asn Lys Asn Ile Lys Gln Tyr Thr Glu Gln Tyr
595 600 605

att tta ggt aga gat tta aat aaa tct aaa tgt gtt cac aaa aat aca 1872
Ile Leu Gly Arg Asp Leu Asn Lys Ser Lys Cys Val His Lys Asn Thr
610 615 620

tta aca caa ttt ata gat tta aat cca aaa cct atg ttt agt tca gta 1920
Leu Thr Gln Phe Ile Asp Leu Asn Pro Lys Pro Met Phe Ser Ser Val
625 630 635 640

gat cct gct ttg gtc aaa cgt att gca gtt ata gaa ata aat gag acg 1968
Asp Pro Ala Leu Val Lys Arg Ile Ala Val Ile Glu Ile Asn Glu Thr
645 650 655

caa ttc gtc aat gaa aaa tta tca cga gat act gtc aat ata aca tca 2016
Gln Phe Val Asn Glu Lys Leu Ser Arg Asp Thr Val Asn Ile Thr Ser
660 665 670

gat aat aga aat ata gta ata gca gat tct acg ttt gac gat aaa att 2064
Asp Asn Arg Asn Ile Val Ile Ala Asp Ser Thr Phe Asp Asp Lys Ile
675 680 685

tta aat aat gaa ttt acg cta cgg tta ttt tat att ctg aag aaa tgg 2112
Leu Asn Asn Glu Phe Thr Leu Pro Leu Phe Tyr Ile Leu Lys Lys Trp
690 695 700

tct aaa aaa tac cat aaa gat act gtc aaa tta tta tac acc cct gac 2160
Ser Lys Lys Tyr His Lys Asp Thr Val Lys Leu Leu Tyr Thr Pro Asp
705 710 715 720

ttt ttt gat aaa caa aat tga 2181
Phe Phe Asp Lys Gln Asn
725

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<220>
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Met Glu Glu Leu Tyr Ser Leu Ile Asn Tyr Ala Tyr Ser Asn Asp Ile
1 5 10 15

aaa aga aca ata gta aat ttt aga ttt tgg att gat aat aaa ata tat	96
Lys Arg Thr Ile Val Asn Phe Arg Phe Ser Ile Asp Asn Lys Ile Tyr	
20 25 30	
aaa aat tta ttt tct aat ttt tgg gaa gat ata ata att aat aat gaa	144
Lys Asn Leu Phe Ser Asn Phe Arg Glu Asp Ile Ile Ile Asn Asn Glu	
35 40 45	
tat tct agt act aaa ctt aat aat att aaa aac ata gta gaa gtt aga	192
Tyr Ser Ser Thr Lys Leu Asn Asn Ile Lys Asn Ile Val Glu Val Arg	
50 55 60	
tgt tgt tat aaa aat aaa aat ata att aat tta tgg ttg ata aat ccc	240
Cys Cys Tyr Lys Asn Lys Asn Ile Ile Asn Leu Ser Leu Ile Asn Pro	
65 70 75 90	
gaa ata tat aaa aat att att aat ata aat aat aaa aat aat aaa aaa	288
Glu Ile Tyr Lys Asn Ile Ile Asn Ile Asn Asn Lys Asn Asn Lys Lys	
85 90 95	
aaa tgg att aat att aat ggc att aaa gaa aat gaa aat aca caa tat	336
Lys Cys Ile Asn Ile Asn Ala Ile Lys Glu Asn Glu Asn Thr Gln Tyr	
100 105 110	
ctt aaa tat tat tta aat aat tgg aat act agt ttt gat tct ttt att	384
Leu Lys Tyr Tyr Leu Asn Asn Cys Asn Thr Ser Phe Asp Ser Phe Ile	
115 120 125	
aaa aaa aaa aaa gaa aag aag aaa act tta ata aag tta ttt aat aat	432
Lys Lys Lys Lys Glu Lys Lys Lys Thr Leu Ile Lys Leu Phe Asn Asn	
130 135 140	
gat aat gtg cat aat ata tca aat aac act aat cat act aga tat tat	480
Asp Asn Val His Asn Ile Ser Asn Asn Thr Asn His Thr Arg Tyr Tyr	
145 150 155 160	
gaa ata gag tct gaa tat aat aac tta aca tca gag gtt aca ata aaa	528
Glu Ile Glu Ser Glu Tyr Asn Asn Leu Thr Ser Glu Val Thr Ile Lys	
165 170 175	
tat aaa ata ata tta gaa ata att aat gaa aaa att att act gaa ggt	576
Tyr Lys Ile Ile Leu Glu Ile Ile Asn Glu Lys Ile Ile Thr Glu Gly	
180 185 190	
aga tta tta tta cca aat tct att agt ata act gtt tca aat aga tca	624
Arg Leu Leu Leu Pro Asn Ser Ile Ser Ile Thr Val Ser Asn Arg Ser	
195 200 205	
aga att ata tta tat gat aat aat aaa ata cag ata ata tta tca aaa	672
Arg Ile Ile Leu Tyr Asp Asn Asn Lys Ile Gln Ile Ile Leu Ser Lys	
210 215 220	
gat aaa tca gaa aat aat atg caa gat ttt aat aat ata tgt tct aat	720
Asp Lys Ser Glu Asn Asn Met Gln Asp Phe Asn Asn Ile Cys Ser Asn	
225 230 235 240	
ata tta aaa aca ttc ttc tct ata aca aaa gaa tac aca aat aat gaa	768
Ile Leu Lys Thr Phe Phe Ser Ile Thr Lys Glu Tyr Thr Asn Asn Glu	

245										250										255										
ata aac gaa aaa cac	ata aaa tcg ctt	agt ata cat tgt	gat ttt aat	816																										
Ile Asn Glu Lys His	Ile Lys Ser Leu	Ser Ile His Cys	Asp Phe Asn																											
260	265	270																												
tat act aat agt ata tta	aaa tac cca ata ttt ttt	gaa gat aaa aaa	864																											
Tyr Thr Asn Ser Ile	Leu Lys Tyr Pro	Ile Phe Phe Glu	Asp Lys Lys																											
275	280	285																												
ata agg ttt ttt gga	aaa aat aaa att	agt ata aaa tcc	ata aca tca	912																										
Ile Arg Phe Phe Gly	Lys Asn Lys Ile	Ser Ile Lys Ser	Ile Thr Ser																											
290	295	300																												
aaa tct aaa tta gag	aaa att tac aca tat	ata gaa aaa aat	ata tgt	960																										
Lys Ser Lys Leu Glu	Lys Ile Tyr Thr	Tyr Ile Glu Lys	Asn Ile Cys																											
305	310	315	320																											
aat ata caa aaa ttg	tat gat gat ata gat	aat tgt gat ccg	ata aat	1008																										
Asn Ile Gln Lys Leu	Tyr Asp Asp Ile	Asp Asn Cys Asp	Pro Ile Asn																											
325	330	335																												
gat ccc att gat gat	ata aat aca cta gta	aat aca ata tat	ttc aat	1056																										
Asp Pro Ile Asp Asp	Ile Asn Thr Leu	Val Asn Lys Ile	Tyr Phe Asn																											
340	345	350																												
aat tta ttg aca taa	aat aaa tta ata tta	aat tat aat gga	ttt aat	1104																										
Asn Leu Leu Lys	Asn Lys Leu Ile	Leu Asn Tyr Asn	Gly Phe Asn																											
355	360	365																												
aga ata cga caa taa	tca tta tat tga	acc tat tgc taa	tag aaa aga	1152																										
Arg Ile Arg Gln	Ser Leu Tyr	Thr Tyr Cys	Lys Arg																											
370	375																													
tat ata tct aaa ttt	tgt aac agc gcc ttt	ggg gca aga tat	aga ttg	1200																										
Tyr Ile Ser Lys Phe	Cys Asn Ser Ala	Phe Gly Ala Arg	Tyr Arg Leu																											
380	385	390	395																											
ttc att aat aaa aca	tga gga taa tat tta	tga tgt tac taa	ata ttt	1248																										
Phe Ile Asn Lys Thr	Gly Tyr Leu	Cys Tyr	Ile Phe																											
400	405																													
tgt att taa aac ata	caa tta cga aga	tat ata tat agt	tta tga tgt	1296																										
Cys Ile	Asn Ile Gln Leu	Arg Arg Tyr	Ile Tyr Ser																											
410	415	420																												
gtt att aaa caa agt	tgt att att taa	att taa ttt tac	aat aaa aga	1344																										
Val Ile Lys Gln Ser	Cys Ile Ile	Ile Phe Tyr Asn	Lys Arg																											
425	430	435																												
ata tat aat tat aaa	tta ttt ttt aat	aat aat aat tta	tta tga caa cga	1392																										
Ile Tyr Asn Tyr Lys	Phe Phe Asn Asn	Asn Asn Leu	Gln Arg																											
440	445																													
taa cat aat aat tga	tat cga aga taa	aaa ata tat aaa	att taa aaa	1440																										
His Asn Asn	Tyr Arg Arg	Lys Ile Tyr Lys	Ile Lys																											
450	455	460																												

atg gaa atc ttt att act aaa ttg tac aca aat agc taa tta tat taa 1488
Met Glu Ile Phe Ile Thr Lys Leu Tyr Thr Asn Ser Leu Tyr
465 470

att aat aga aga tga aaa taa aaa aat att tgt taa ata tat aac aaa 1536
Ile Asn Arg Arg Lys Lys Asn Ile Cys Ile Tyr Asn Lys
475 480 485

aaa tga tat ttt aat aga taa taa tac tat tga taa taa taa aat aaa 1584
Lys Tyr Phe Asn Arg Tyr Tyr Asn Lys
490 495

aaa ata taa taa aat aaa atg tat taa tat aga aaa taa agt tac att 1632
Lys Ile Asn Lys Met Tyr Tyr Arg Lys Ser Tyr Ile
500 505

atc aat att aga caa taa taa tga att ata tat aaa taa taa att att 1680
Ile Asn Ile Arg Gln Ile Ile Tyr Lys Ile Ile
510 515

taa gct aga tta caa tat ata taa tat att taa ttt ttc gtt aaa aca 1728
Ala Arg Leu Gln Tyr Ile Tyr Ile Phe Phe Val Lys Thr
520 525 530

tgt att att att aac aga tat aga cga tgg aaa tat tat aat ttt aaa 1776
Cys Ile Ile Ile Asn Arg Tyr Arg Arg Trp Lys Tyr Tyr Asn Phe Lys
535 540 545

ttt aga aaa ttt aga aca aga tga ata caa aaa tta tta tga tat aat 1824
Phe Arg Lys Phe Arg Thr Arg Ile Gln Lys Leu Leu Tyr Asn
550 555 560

agt aat gat aaa tga taa gtt tta taa taa tat cag aaa cgc att ttt 1872
Ser Asn Asp Lys Val Leu Tyr Gln Lys Arg Ile Phe
565 570

agt taa tga tta a 1885
Ser Leu
575

<110> 42
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<112> DNA
<113> Amsacta moorei entomopoxvirus

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Met Leu Asp Ile Thr Lys Ser Ile Ile Ser Ser Gly Ile Asn Ile Lys
1 5 10 15

tta cca agt gtt aac ata ata caa aat ata aaa cca aaa tat tat aat 96
Leu Pro Ser Val Asn Ile Ile Gln Asn Ile Lys Pro Lys Tyr Tyr Asn
20 25 30

aat agt tct ccc aaa tca tat ttt ggg att ata tat cat tta ttg tca	144
Asn Ser Ser Pro Lys Ser Tyr Phe Gly Ile Ile Tyr His Leu Leu Ser	
35 40 45	
ata gtt ata gaa ata caa gac aca tat aaa tta aat gat aat ata gga	192
Ile Val Ile Glu Ile Gln Asp Thr Tyr Lys Leu Asn Asp Asn Ile Gly	
50 55 60	
tat ttt aca aaa tat gat gat atg aag aaa aaa aat aaa aca gat tac	240
Tyr Phe Thr Lys Tyr Asp Asp Met Lys Lys Lys Asn Lys Thr Asp Tyr	
65 70 75 80	
gat tat tct tat aat aat ctt ttt aaa aca gat aat aaa tta gaa aaa	288
Asp Tyr Ser Tyr Asn Asn Leu Phe Lys Thr Asp Ile Lys Leu Glu Lys	
85 90 95	
agt ggt tca tgg atg aag aat tgg aca aat ata tat aat aca aca gat	336
Ser Gly Ser Ser Met Lys Asn Trp Thr Asn Ile Tyr Asn Thr Thr Asp	
100 105 110	
gtt act att gat ata tta aat cgg tta aat aaa aaa cac gat aaa cta	384
Val Thr Ile Asp Ile Leu Asn Pro Leu Asn Lys Lys His Asp Lys Leu	
115 120 125	
tct ata aga tta cct tgt gta ata tct aca tct gtt ata cat tat tta	432
Ser Ile Arg Leu Pro Cys Val Ile Ser Thr Ser Val Ile His Tyr Leu	
130 135 140	
tat att tta tca tat att tat gaa tca gtt aca tta ata aaa gaa gat	480
Tyr Ile Leu Ser Tyr Ile Tyr Glu Ser Val Thr Leu Ile Lys Glu Asp	
145 150 155 160	
ttg tgg tta aac gat agt ttt ata gtt aaa tgt gaa aat tta aga aca	528
Leu Trp Leu Asn Asp Ser Phe Ile Val Lys Cys Glu Asn Leu Arg Thr	
165 170 175	
aat aat tat aat aat gta aaa tgg cag tta aaa aca att gta ttt aat	576
Asn Asn Tyr Asn Asn Val Lys Ser Gln Leu Lys Thr Ile Val Phe Asn	
180 185 190	
gaa aaa aca aga caa tat aaa ata gac gga tta ttt aaa aat ttc ata	624
Glu Lys Thr Arg Gln Tyr Lys Ile Asp Gly Leu Phe Lys Asn Phe Ile	
195 200 205	
ata gac gaa agt ttt aaa aat ata ata agt aaa ttt att aat gat att	672
Ile Asp Glu Ser Phe Lys Asn Ile Ile Ser Lys Phe Ile Asn Asp Ile	
210 215 220	
caa tgt gtt ata tgc gat cta tgg tta act att caa aaa aat ata aat	720
Gln Cys Val Ile Cys Asp Leu Trp Leu Thr Ile Gln Lys Asn Ile Asn	
225 230 235 240	
gat tca cca tct gat aga aaa aaa att tat tgg gaa gaa tat gat aat	768
Asp Ser Pro Ser Asp Arg Lys Lys Ile Tyr Trp Glu Glu Tyr Asp Asn	
245 250 255	
att ttg gga ttt caa aat tga	789
Ile Leu Gly Phe Gln Asn	

260

<210> 43
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 <213> Amsacta moorei entomopoxvirus

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 Met Asp Ile Thr Asp Asn Ser Tyr Glu Tyr Ser Thr Ile Asn Pro Gln
 1 5 10 15

ggt ata ttt tta ttt gat gaa aac aag aat gtt aaa aag aca ata ttt 96
 Val Ile Phe Leu Phe Asp Glu Asn Lys Asn Val Lys Lys Thr Ile Phe
 20 25 30

tta tct aaa gat agt ata ata gat aat agt ttt gca tat gga gta tat 144
 Leu Ser Lys Asp Ser Ile Ile Asp Asn Ser Phe Ala Tyr Gly Val Tyr
 35 40 45

aat tat tta tta tct aca aat aca aaa ttt cta tca caa cca gaa tat 192
 Asn Tyr Leu Leu Ser Thr Asn Thr Lys Phe Leu Ser Gln Pro Glu Tyr
 50 55 60

att aat gat cat gtt ata tta tca ttc aat ctt gaa caa gct aga gga 240
 Ile Asn Asp His Val Ile Leu Ser Phe Asn Leu Glu Gln Ala Arg Gly
 65 70 75 80

tac att aga aat ata tta aga att aac gaa aat att att tta ttt tca 288
 Tyr Ile Arg Asn Ile Leu Arg Ile Asn Glu Asn Ile Ile Leu Phe Ser
 85 90 95

ata tgg cat aat tta gat tat tat tat aat aac aat gaa ata ttt gat 336
 Ile Trp His Asn Leu Asp Tyr Tyr Tyr Asn Asn Asn Glu Ile Phe Asp
 100 105 110

cca tat aat ata aaa aat aat tta tta ata gaa tct aat gat aat aaa 384
 Pro Tyr Asn Ile Lys Asn Asn Leu Leu Ile Glu Ser Asn Asp Asn Lys
 115 120 125

aaa ata tta tat atg tta gat att agt att act aat ggt gct ata ttt 432
 Lys Ile Leu Tyr Met Leu Asp Ile Ser Ile Thr Asn Gly Ala Ile Phe
 130 135 140

tgt gtt act act aac agt tat act aat aca aat tta gct aaa gaa ggc 480
 Cys Val Thr Thr Asn Ser Tyr Thr Asn Thr Asn Leu Ala Lys Glu Gly
 145 150 155 160

ata tat tca aaa att tat aca gaa tat ata caa gaa ata ata ttt aat 528
 Ile Tyr Ser Lys Ile Tyr Thr Glu Tyr Ile Gln Glu Ile Ile Phe Asn
 165 170 175

ata tat aaa aat aac tat aaa tta tct tcc gtt gta aaa gaa tca gaa 576

Ile Tyr Lys	Asn 180	Asn Tyr Lys	Leu Ser 185	Ser Val Val	Lys Glu 190	Ser Glu	
gaa tat tct tta aca aat aat ttt gat gat ata atc aaa tta tca aat							624
Glu Tyr Ser	Leu Thr Asn Asn	Phe Asp Asp	Ile Ile	Lys Leu Ser Asn			
	195	200	205				
att aat aaa tat aaa aag aca tta tgt att ggc gta tat gat aaa tat							672
Ile Asn Lys Tyr Lys Lys Thr Leu Cys Ile Gly Val Tyr Asp Lys Tyr							
	210	215	220				
tat ata aag ggt gat aaa ata tca atc ttg gat aac tac aac gat tca							720
Tyr Ile Lys Gly Asp Lys Ile Ser Ile Leu Asp Asn Tyr Asn Asp Ser							
	225	230	235				240
gaa tat aca tca tta tac ata tat ata gat caa aat aat ata ata aaa							768
Glu Tyr Thr Ser Leu Tyr Ile Tyr Ile Asp Glu Asn Asn Ile Ile Lys							
	245	250	255				
atc act aat gat gta tta ata aca gaa aaa tta act tat ttt aca gat							816
Ile Thr Asn Asp Val Leu Ile Thr Glu Lys Leu Thr Tyr Phe Thr Asp							
	260	265	270				
ata tta aaa gaa gaa gaa ata aaa aat ata att att aaa tca act act							864
Ile Leu Lys Glu Glu Glu Ile Lys Asn Ile Ile Ile Lys Ser Thr Ser							
	275	280	285				
cca aaa agt att ata tat ata tat ttt gat acg ttt tta gac tct aat							912
Pro Lys Ser Ile Ile Tyr Ile Tyr Phe Asp Thr Phe Leu Asp Ser Asn							
	290	295	300				
ata aat ata caa tat gat ctt aaa ttt ttt cta aat gtt aca aac act							960
Ile Asn Ile Gln Tyr Asp Leu Lys Phe Phe Leu Asn Val Thr Asn Thr							
	305	310	315				320
aga aat ata ttt ata gat atg tct tat aaa att aat att atg aca tct							1008
Arg Asn Ile Phe Ile Asp Met Ser Tyr Lys Ile Asn Ile Met Thr Ser							
	325	330	335				
aaa aat cac ata tca ttt aga tct ttt aac ata gat gta aat tta tgt							1056
Lys Asn His Ile Ser Phe Arg Ser Phe Asn Ile Asp Val Asn Leu Cys							
	340	345	350				
aaa tat tta tcg tta ttg ata tta gga tat aat cat att ttt aat aaa							1104
Lys Tyr Leu Ser Leu Leu Ile Leu Gly Tyr Asn His Ile Phe Asn Lys							
	355	360	365				
ata caa aaa cac gct aga ctt aaa aaa att gat gag ctt tat cct tcg							1152
Ile Gln Lys His Ala Arg Leu Lys Lys Ile Asp Glu Leu Tyr Pro Ser							
	370	375	380				
agg tat tgt caa aat tat aaa gat gtt aaa aga caa cct gtt tta ata							1200
Arg Tyr Cys Gln Asn Tyr Lys Asp Val Lys Arg Gln Pro Val Leu Ile							
	385	390	395				400
gat tcg ata gat gaa aat tat tta att aaa ata tct gat aaa tat tat							1248
Asp Ser Ile Asp Glu Asn Tyr Leu Ile Lys Ile Ser Asp Lys Tyr Tyr							
	405	410	415				

gtg ggt aaa gaa gat act aca agg aca tat caa cac aaa gga act aaa	1296
Val Gly Lys Glu Asp Thr Thr Arg Thr Tyr Gln His Lys Gly Thr Lys	
420 425 430	
aaa ata ttt gat cca tac aaa tac ggt gat gtt tat ata gat gat aat	1344
Lys Ile Phe Asp Pro Tyr Lys Tyr Gly Asp Val Tyr Ile Asp Asp Asn	
435 440 445	
ggg tta ata tat caa tgt tct agt att tat tat tca aat atg gga ttt	1392
Gly Leu Ile Tyr Gln Cys Ser Ser Ile Tyr Tyr Ser Asn Met Gly Phe	
450 455 460	
tgg aat aat ata tat tta gct agt gga gga aaa act tgt tat cct tgt	1440
Leu Asn Asn Ile Tyr Leu Ala Ser Gly Gly Lys Thr Cys Tyr Pro Cys	
465 470 475 480	
tgt tat tca aaa cag aaa aat aga gat gaa ata ttc gaa tct tgc gtt	1488
Cys Tyr Ser Lys Gln Lys Asn Arg Asp Glu Ile Phe Glu Ser Cys Val	
485 490 495	
tat aat aaa gaa att att tta gaa gat aaa ata aat ccc ata ata gtt	1536
Tyr Asn Lys Glu Ile Ile Leu Glu Asp Lys Ile Asn Pro Ile Ile Val	
500 505 510	
aat tat gga aga att ata tta agt aag aat ggt tta ttt aaa tta tca	1584
Asn Tyr Gly Arg Ile Ile Leu Ser Lys Asn Gly Leu Ser Lys Leu Ser	
515 520 525	
cct aaa tta aat aat att tta aac gct aat tca aaa ata gat att gtt	1632
Pro Lys Leu Asn Asn Ile Leu Asn Ala Asn Ser Lys Ile Asp Ile Val	
530 535 540	
aaa cat act aat aga ata gat ttt tca gat aat tat aca ata ata atg	1680
Lys His Thr Asn Arg Ile Asp Phe Ser Asp Asn Tyr Thr Ile Ile Met	
545 550 555 560	
tca tat caa cca act att act ata aga aat ttt gat gac atg tat tat	1728
Ser Tyr Gln Pro Thr Ile Thr Ile Arg Asn Phe Asp Asp Met Tyr Tyr	
565 570 575	
ttt att ata aac aat aat gct att gtt att aat gat aat ata gtt tat	1776
Phe Ile Ile Asn Asn Ala Ile Val Ile Asn Asp Asn Ile Val Tyr	
580 585 590	
act gat aaa agt ata tta aaa atg aat aat aat aat ata aat gta ttt	1824
Thr Asp Lys Ser Ile Leu Lys Met Asn Asn Asn Asn Ile Asn Val Phe	
595 600 605	
ata ata ata caa aat aga att cat caa tta aaa aat att gat aaa caa	1872
Ile Ile Ile Gln Asn Arg Ile His Gln Leu Lys Asn Ile Asp Lys Gln	
610 615 620	
tca aaa tat gat gat ata gta gtt aat aaa ata gat gat aaa aaa ata	1920
Ser Lys Tyr Asp Asp Ile Val Val Asn Lys Ile Asp Asp Lys Lys Ile	
625 630 635 640	
aaa ata att aaa aaa tac ttt aat ata ata tcc aat ata cga aat cca	1968
Lys Ile Ile Lys Lys Tyr Phe Asn Ile Ile Ser Asn Ile Arg Asn Pro	

645	650	655	
ata tct aat aat gga att tct ata aca gat gat gtt tgt act ata gat Ile Ser Asn Asn Gly Ile Ser Ile Thr Asp Asp Val Cys Thr Ile Asp 660 665 670			2016
ggg gaa tta ata gaa aat aaa aat att aaa tat ttt tct gaa tat aat Gly Glu Leu Ile Glu Asn Lys Asn Ile Lys Tyr Phe Ser Glu Tyr Asn 675 680 685			2064
aat att tct tta aaa cct aaa agt act agc gaa tat ata gaa aag tat Asn Ile Ser Leu Lys Pro Lys Ser Thr Ser Glu Tyr Ile Glu Lys Tyr 690 695 700			2112
ttt aaa caa tat ttt gat act ata tat act aat aat att aga tta ttt Phe Lys Gln Tyr Phe Asp Thr Ile Tyr Thr Asn Asn Ile Arg Leu Phe 705 710 715 720			2160
ata aaa ata ttt ata acg aaa ata atg cat agt ata aaa gaa aca gac Ile Lys Ile Phe Ile Thr Lys Ile Met His Ser Ile Lys Glu Thr Asp 725 730 735			2208
att ata aaa aca gat tat act aaa tta gaa gaa aaa tta aat aat att Ile Ile Lys Thr Asp Tyr Thr Lys Leu Glu Glu Lys Leu Asn Asn Ile 740 745 750			2256
act aat aaa caa atg tca tct gtt ata ttg tca aaa aaa agt att taa Thr Asn Lys Gln Met Ser Ser Val Ile Leu Ser Lys Lys Ser Ile 755 760 765			2304

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<211> 318
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<213> Amsacta moorei entomopoxvirus

<220>
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<222> (1)..(318)

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aga ata tat tat aca att tct act tta aat aaa gaa aat tat ata cat Arg Ile Tyr Tyr Thr Ile Ser Thr Leu Asn Lys Glu Asn Tyr Ile His 20 25 30		96
aat gtt gaa aaa tta aaa tta ata tta tat ttg ata tgt agt aca tta Asn Val Glu Lys Leu Lys Leu Ile Leu Tyr Leu Ile Cys Ser Thr Leu 35 40 45		144
cca tgc gaa aca tgt gca gct gaa gct aaa aaa aaa ata caa aaa aat Pro Cys Glu Thr Cys Ala Ala Glu Ala Lys Lys Lys Ile Gln Lys Asn 50 55 60		192
aat ata atg tct gaa tta aat att aat aga att tta cat ttt tat ata		240

Asn Ile Met Ser Glu Leu Asn Ile Asn Arg Ile Leu His Phe Tyr Ile
 65 70 75 80

 gaa ttt tat aat ata ttt cat aat aat aaa ata gat aga aaa aaa ata 288
 Glu Phe Tyr Asn Ile Phe His Asn Asn Lys Ile Asp Arg Lys Lys Ile
 85 90 95

 aaa aca tat gat act ttt aac tat gta taa 318
 Lys Thr Tyr Asp Thr Phe Asn Tyr Val
 100 105

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 <213> Amsacta moorei entomopoxvirus

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 agg cct aat att tat ata aca gaa act aaa aat ggt aaa tat aac ata 96
 Arg Pro Asn Ile Tyr Ile Thr Glu Thr Lys Asn Gly Lys Tyr Asn Ile
 20 25 30

 cca caa tat gta tca agt cct tgt acg ttt caa gat ggt tat gca gta 144
 Pro Gln Tyr Val Ser Ser Pro Cys Thr Phe Gln Asp Gly Tyr Ala Val
 35 40 45

 gct tct ata aca gat att aaa tta gaa ggc tgt aat aat ttt gga tta 192
 Ala Ser Ile Thr Asp Ile Lys Leu Glu Gly Cys Asn Asn Phe Gly Leu
 50 55 60

 aat ata act ttg cct gaa ata aaa ggt ata ggt ggt gtt agg ttt cag 240
 Asn Ile Thr Leu Pro Glu Ile Lys Gly Ile Gly Gly Val Arg Phe Gln
 65 70 75 80

 aat tat ttc att cct aaa ctt atc gaa gaa tgt att ata gaa act atc 288
 Asn Tyr Phe Ile Pro Lys Leu Ile Glu Glu Cys Ile Ile Glu Thr Ile
 85 90 95

 gat gat aat aaa act aac gaa ata att aga aaa act ggg ctt gaa ttt 336
 Asp Asp Asn Lys Thr Asn Glu Ile Ile Arg Lys Thr Gly Leu Glu Phe
 100 105 110

 tta atg gat ttt ata cag aag aaa aaa gaa tat tcg aga ttt gta ggc 384
 Leu Met Asp Phe Ile Gln Lys Lys Lys Glu Tyr Ser Arg Phe Val Gly
 115 120 125

 aat aat tct gat tta tgt aaa ttt aaa tat ggt aaa gtg ctg atg ata 432
 Asn Asn Ser Asp Leu Cys Lys Phe Lys Tyr Gly Lys Val Leu Met Ile
 130 135 140

tta ttt ttc cat cta aag aag tat att ttc ctc taa tgt tta tat ttg	490
Leu Phe Phe His Leu Lys Lys Tyr Ile Phe Leu Cys Leu Tyr Leu	
145 150 155	
ata atg tta ata tga atc cca gaa ctt gtt tta gat tat tcc ctg aaa	528
Ile Met Leu Ile Ile Pro Glu Leu Val Leu Asp Tyr Ser Leu Lys	
160 165 170	
cta aat tac aaa taa aaa taa aat tta gac cat ttg cag ata ttt tat	576
Leu Asn Tyr Lys Lys Asn Leu Asp His Leu Gln Ile Phe Tyr	
175 180 185	
tac ccc atg taa aat ata aga aaa ata gtc tta aaa ata ttt cag atg	604
Tyr Pro Met Asn Ile Arg Lys Ile Val Leu Lys Ile Phe Gln Met	
190 195 200	
ttg atc tac aac cat ata taa aat tta ctg gtt ata ata cgt ccc gaa	672
Leu Ile Tyr Asn His Ile Asn Leu Leu Val Ile Ile Arg Ala Glu	
205 210 215	
gtc ctt tta aac ata gat ata tag aag aat taa ctt att cta cac aga	720
Val Leu Leu Asn Ile Asp Ile Lys Asn Leu Ile Leu His Thr	
220 225 230	
aaa gta ata aaa aga att att att cac ctg aat ttt tat cta taa cta	768
Lys Val Ile Lys Arg Ile Ile Ile His Leu Asn Phe Tyr Leu Leu	
235 240 245	
atc tat tat ggt att cta aat ctg ata ttt tca gag gaa ata tgt tta	816
Ile Tyr Tyr Gly Ile Leu Asn Leu Ile Phe Ser Glu Glu Ile Cys Leu	
250 255 260	
tat cat atc ccc att atc cag aaa cag aag aaa att tta tca aaa cat	864
Tyr His Ile Pro Ile Ile Gln Lys Gln Lys Lys Ile Leu Ser Lys His	
265 270 275	
acg ttg ata aat tat taa aag atc ttt taa tta ttt ctg atg atg aaa	912
Thr Leu Ile Asn Tyr Lys Ile Phe Leu Phe Leu Met Met Lys	
280 285 290	
act tta tta aat caa aag gat tta gtg ata aat gta agt tta aaa aaa	960
Thr Leu Leu Asn Gln Lys Asp Leu Val Ile Asn Val Ser Leu Lys Lys	
295 300 305	
ttg atc cgt gtg ata aaa ttg tgt ttg atg tta ata ata att gtg aaa	1008
Leu Ile Arg Val Ile Lys Leu Cys Leu Met Leu Ile Ile Ile Val Lys	
310 315 320 325	
tta ata taa tga atg tcc cgg aag gtt ttg att tat att atc ata caa	1056
Leu Ile Met Ser Arg Lys Val Leu Ile Tyr Ile Ile Ile Gln	
330 335	
ata tat tat cat tca gta gaa gaa ata acc caa atg att ata ata ttt	1104
Ile Tyr Tyr His Ser Val Glu Glu Ile Thr Gln Met Ile Ile Ile Phe	
340 345 350 355	
cta aaa aat tta gta aaa tat ctg gaa cat ata tac cta acg aag ata	1152
Leu Lys Asn Leu Val Lys Tyr Leu Glu His Ile Tyr Leu Thr Lys Ile	

360	365	370	
aga ttt taa tac acg aag taa aac ata caa taa	aca tat ctg acg tta	1200	
Arg Phe Tyr Thr Lys Asn Ile Gln Thr Tyr Leu Thr Leu			
375	380		
gta ttc cat tga gta tat gga atg caa atg aga	ata ctt cta cgg gtg	1248	
Val Phe His Val Tyr Gly Met Gln Met Arg Ile Leu Leu Arg Val			
385	390	395	
att tga gat cta tta aat cta aaa aat cag ata	tat atg taa atg atc	1296	
Ile Asp Leu Leu Asn Leu Lys Asn Gln Ile Tyr Met Met Ile			
400	405	410	
ctt ttg ttt ttg gat tag att ttt tat caa aag aat	tag gaa tta tta	1344	
Leu Leu Phe Leu Asp Ile Phe Tyr Gln Lys Asn Glu Leu Leu			
415	420	425	
gca gat cta taa caa gta gtt cta atg aat caa	tag ctg aat ata aca	1392	
Ala Asp Leu Gln Val Val Leu Met Asn Gln Leu Asn Ile Thr			
430	435	440	
gtg ata cgg taa ata ttg aat cat att ttc aat ctg	ata att tat ttg	1440	
Val Ile Pro Ile Leu Asn His Ile Phe Asn Leu Ile Ile Tyr Leu			
445	450	455	
cag tta cgc caa cat cag aat att caa acc cag	caa tat ttt tac ata	1488	
Gln Leu Arg Gln His Gln Asn Ile Gln Thr Gln Gln Tyr Phe Tyr Ile			
460	465	470	
gat tta atc ttc ata ata taa ttt tta ttg aac	cat cta gat taa tag	1536	
Asp Leu Ile Phe Ile Ile Phe Leu Leu Asn His Leu Asp			
475	480	485	
cgg atg ctg cta aaa att tta gat gog tta att	taa gta tag att gga	1584	
Pro Met Leu Leu Lys Ile Leu Asp Ala Leu Ile Val Ile Gly			
490	495		
aag aat ttc ctg aag tag atc caa gaa gtt tat	tta aca aag aat tac	1632	
Lys Asn Phe Leu Lys Ile Gln Glu Val Tyr Leu Thr Lys Asn Tyr			
500	505	510	
aaa ttt gtc aaa cta ttg tta aaa aaa tat cat	atg ata ata ata tta	1680	
Lys Phe Val Lys Leu Leu Leu Lys Lys Tyr His Met Ile Ile Ile Leu			
515	520	525	
taa cgg ttc ata ttc tag agt aa		1703	
Pro Phe Ile Phe Ser			
535			

<210> 46
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 <213> Amsacta moorei entomopoxvirus

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1			5						10					15		

agt	aat	att	aat	ttt	gat	agt	aat	cca	aat	gtt	aat	aat	gaa	ata	gaa	96
Ser	Asn	Ile	Asn	Phe	Asp	Ser	Asn	Pro	Asn	Val	Asn	Asn	Glu	Ile	Glu	
			20					25					30			

ttt	aca	tac	ata	aat	cca	gat	tta	aga	att	tta	tct	aat	att	tat	act	144
Phe	Thr	Tyr	Ile	Asn	Pro	Asp	Leu	Arg	Ile	Leu	Ser	Asn	Ile	Tyr	Thr	
		35					40					45				

gat	aat	aat	gaa	tct	aaa	aaa	aaa	aca	tat	tta	gaa	tat	gta	ctt	aaa	142
Asp	Asn	Asn	Glu	Ser	Lys	Lys	Lys	Thr	Tyr	Leu	Glu	Tyr	Val	Leu	Lys	
	50					55					60					

ttt	gct	aac	aaa	aag	tct	aaa	tta	aga	caa	aaa	tat	aaa	tat	gat	tat	240
Phe	Ala	Asn	Lys	Lys	Ser	Lys	Leu	Arg	Gln	Lys	Tyr	Lys	Tyr	Asp	Tyr	
65					70				75					80		

cct	act	ttt	gaa	ata	gca	aat	tca	tat	ttt	tta	gat	aaa	ctt	act	aat	288
Pro	Thr	Phe	Glu	Ile	Ala	Asn	Ser	Tyr	Phe	Leu	Asp	Lys	Leu	Thr	Asn	
			85					90					95			

aat	tgg	gaa	aga	aaa	act	ata	ata	tca	gaa	gat	aaa	ata	aat	att	aat	336
Asn	Trp	Glu	Arg	Lys	Thr	Ile	Ile	Ser	Glu	Asp	Lys	Ile	Asn	Ile	Asn	
			100					105					110			

aaa	aat	gaa	tat	att	tta	ttg	aga	cat	aat	act	gaa	tat	caa	gat	aat	384
Lys	Asn	Glu	Tyr	Ile	Leu	Leu	Arg	His	Asn	Thr	Glu	Tyr	Gln	Asp	Asn	
		115					120					125				

gat	ata	gaa	tta	cgg	tta	tta	aat	gat	ata	ttg	gat	aaa	ata	aat	gta	432
Asp	Ile	Glu	Leu	Pro	Leu	Leu	Asn	Asp	Ile	Leu	Asp	Lys	Ile	Asn	Val	
	130					135					140					

tta	ttt	gtt	tgg	caa	tta	tat	ata	att	ata	aat	gat	tta	ata	aaa	gtt	480
Leu	Phe	Val	Ser	Gln	Leu	Tyr	Ile	Ile	Ile	Asn	Asp	Leu	Ile	Lys	Val	
145					150					155				160		

gaa	ttt	aaa	ata	aaa	tca	aac	att	gga	cca	tta	tgg	tca	aat	aaa	tta	528
Glu	Phe	Lys	Ile	Lys	Ser	Asn	Ile	Gly	Pro	Leu	Ser	Ser	Asn	Lys	Leu	
			165					170						175		

tta	tta	agt	aca	cat	ttc	aat	gat	ata	gaa	aca	tat	aga	aaa	aat	ata	576
Leu	Leu	Ser	Thr	His	Phe	Asn	Asp	Ile	Glu	Thr	Tyr	Arg	Lys	Asn	Ile	
			180					185					190			

aca	tat	tat	tta	gaa	ata	gaa	gta	cta	tct	aaa	aca	aaa	ttg	gat	aat	624
Thr	Tyr	Tyr	Leu	Glu	Ile	Glu	Val	Leu	Ser	Lys	Thr	Lys	Leu	Asp	Asn	
		195					200					205				

aat	gta	ctt	tat	gat	aat	tta	gta	aaa	tct	ttt	gaa	tat	ata	tat	aaa	672
Asn	Val	Leu	Tyr	Asp	Asn	Leu	Val	Lys	Ser	Phe	Glu	Tyr	Ile	Tyr	Lys	
	210					215					220					

agc aaa aat ata tct aat ata agt tta gtt aca ata aaa aat aaa cct Ser Lys Asn Ile Ser Asn Ile Ser Leu Val Thr Ile Lys Asn Lys Pro 225 230 235 240	720
aaa ata aaa aca cat atg ata caa tat aat aaa tta aat aca att gat Lys Ile Lys Thr His Met Ile Gln Tyr Asn Lys Leu Asn Thr Ile Asp 245 250 255	768
aaa gaa tca tat att atg ggt att aaa att gat gga gat gtt gta gaa Lys Glu Ser Tyr Ile Met Ala Ile Lys Ile Asp Gly Asp Val Val Glu 260 265 270	816
ttt aat gtt atg aat gga att tgt aat atc ata ata tat gat atg gta Phe Asn Val Met Asn Gly Ile Cys Asn Ile Ile Ile Tyr Asp Met Val 275 280 285	864
tat aaa aat ttt tca tgt aac ata gat aaa aat ata caa atg ata ggt Tyr Lys Asn Phe Ser Cys Asn Ile Asp Lys Asn Ile Gln Met Ile Gly 290 295 300	912
atg gga gaa tca att aag gta gat aat gtt aaa aaa ata tat cca ttt Met Gly Glu Tyr Ile Lys Val Asp Asn Val Lys Lys Ile Tyr Pro Phe 305 310 315 320	960
tat ttt tca aaa tta tct tat aat aat aaa aaa ata ata aat aat att Tyr Phe Ser Lys Leu Ser Tyr Asn Asn Lys Lys Ile Ile Asn Asn Ile 325 330 335	1008
cta gat aga tat aag caa ata caa tat tat aat gat aat tta ttg tgt Leu Asp Arg Tyr Lys Gln Ile Gln Tyr Tyr Asn Asp Asn Leu Leu Cys 340 345 350	1056
cat aaa cca aat atg caa att aaa ttt gaa aac aaa tta act tta aaa His Lys Pro Asn Met Gln Ile Lys Phe Glu Asn Lys Leu Thr Leu Lys 355 360 365	1104
ttt gac gaa aat aac gta act aca aat gta cta aaa ttt tat aaa tca Phe Asp Glu Asn Asn Val Thr Thr Asn Val Leu Lys Phe Tyr Lys Ser 370 375 380	1152
ata gaa aat agt tca ttt aaa aat ata tac gat ggt att gta tta cta Ile Glu Asn Ser Ser Phe Lys Asn Ile Tyr Asp Gly Ile Val Leu Leu 385 390 395 400	1200
gat att aca gat aat gat tct aaa aaa gat tat aaa ttt aaa ata gat Asp Ile Thr Asp Asn Asp Ser Lys Lys Asp Tyr Lys Phe Lys Ile Asp 405 410 415	1248
aat act gta gat gtt ata tgt aaa ttg gac act tat aga gga aca tat Asn Thr Val Asp Val Ile Cys Lys Leu Asp Thr Tyr Arg Gly Thr Tyr 420 425 430	1296
ata tta cac aat gat aat aaa tta tat ata act ttt aca tta tat caa Ile Leu His Asn Asp Asn Lys Leu Tyr Ile Thr Phe Thr Leu Tyr Gln 435 440 445	1344
tat gat aat aaa aat ttt aca gaa att tta aaa tac gaa gaa aag aac Tyr Asp Asn Lys Asn Phe Thr Glu Ile Leu Lys Tyr Glu Glu Lys Asn	1392

450	455	460	
gaa att ata gaa tat aat aat tat gtt aac tta tta att ttt aat aat			1440
Glu Ile Ile Glu Tyr Asn Asn Tyr Val Asn Leu Leu Ile Phe Asn Asn			
465	470	475	480
aat aat aaa ttt ggt cct aaa aaa atg tta tog ccc ata tgg tgt att			1488
Asn Asn Lys Phe Gly Pro Lys Lys Met Leu Ser Pro Ile Trp Cys Ile			
	485	490	495
gta gaa tat tca ttt tta gaa tct aaa att att gga tta aga atc gat			1536
Val Glu Tyr Ser Phe Leu Glu Ser Lys Ile Ile Gly Leu Arg Ile Asp			
	500	505	510
aaa act aat aat ttc tat aga caa aat tat aat ggc aat aat tta gat			1584
Lys Thr Asn Asn Phe Tyr Arg Gln Asn Tyr Asn Gly Asn Asn Leu Asp			
	515	520	525
gtt ata tta aca tcc aaa cac att cac gaa gaa ttt cca tca aat tat			1632
Val Ile Leu Thr Ser Lys His Ile His Glu Glu Phe Pro Ser Asn Tyr			
	530	535	540
aat att gat tat tta atg tct tta aat gaa act ata aat gta ata gat			1680
Asn Ile Asp Tyr Leu Met Ser Leu Asn Glu Thr Ile Asn Val Ile Asp			
	545	550	555
aat aat cca cac aga tcc aaa tta tta tta aat aaa gaa gtt aat aaa			1728
Asn Asn Pro His Arg Ser Lys Leu Leu Leu Asn Lys Glu Val Asn Lys			
	565	570	575
tat ttt atg aat aat act att aga aca tct ata aat ata tta aca aat			1776
Tyr Phe Met Asn Asn Thr Ile Arg Thr Ser Ile Asn Ile Leu Thr Asn			
	580	585	590
tat tta aaa act aat ggt ata tog atg gct ata tca aaa tta gta aca			1824
Tyr Leu Lys Thr Asn Gly Ile Ser Met Ala Ile Ser Lys Leu Val Thr			
	595	600	605
act tta cca aat aga tat gtt tta agt ata gat ata gga aga gga gga			1872
Thr Leu Pro Asn Arg Tyr Val Leu Ser Ile Asp Ile Gly Arg Gly Gly			
	610	615	620
gat tta act aaa tat tat tat gtc gga ata aca gga atg tta gga aca			1920
Asp Leu Thr Lys Tyr Tyr Tyr Val Gly Ile Thr Gly Met Leu Gly Thr			
	625	630	635
gat cct gat att ttt gct ata aaa gaa gca aga gat aga tat aaa aaa			1968
Asp Pro Asp Ile Phe Ala Ile Lys Glu Ala Arg Asp Arg Tyr Lys Lys			
	645	650	655
tta caa act ata tca aat gcc caa gct agt ata tat aaa ttt gat agt			2016
Leu Gln Thr Ile Ser Asn Ala Gln Ala Ser Ile Tyr Lys Phe Asp Ser			
	660	665	670
ttg aac atg tct ata tta aat gat aat tat gaa aat gaa ata aaa aat			2064
Leu Asn Met Ser Ile Leu Asn Asp Asn Tyr Glu Asn Glu Ile Lys Asn			
	675	680	685

aaa ttt atg aca cat cac aaa ata caa tat ttt gga gtt ata gag tgg 2112
 Lys Phe Met Thr His His Lys Ile Gln Tyr Phe Gly Val Ile Glu Trp
 690 695 700

caa tta gct att cat tat tct tac aat aac aat aca aaa gat atg ata 2160
 Gln Leu Ala Ile His Tyr Ser Tyr Asn Asn Asn Thr Lys Asp Met Ile
 705 710 715 720

tta tta aaa cta aaa aat tta tca aac gat gga aca aaa gta ata ata 2208
 Leu Leu Lys Leu Lys Asn Leu Ser Asn Asp Gly Thr Lys Val Ile Ile
 715 730 735

act tgt ctt gac gga gac gaa ata aca aat aga tta aat gaa aat cct 2256
 Thr Cys Leu Asp Gly Asp Glu Ile Thr Asn Arg Leu Asn Glu Asn Pro
 740 745 750

aat tta att tat aat att caa ccc gga att aca tat aaa att tct aaa 2304
 Asn Leu Ile Tyr Asn Ile Gln Pro Gly Ile Thr Tyr Lys Ile Ser Lys
 755 760 765

att tca gat gat aaa ata tca gtt tta tat aat gct aca atg act gaa 2352
 Ile Ser Asp Asp Lys Ile Ser Val Leu Tyr Asn Ala Thr Met Thr Glu
 770 775 780

tgg tta gaa gaa tat ata ata aca gat aaa ata att gat gat ttt gct 2400
 Trp Leu Glu Glu Tyr Ile Ile Thr Asp Lys Ile Ile Asp Asp Phe Ala
 785 790 795 800

atg tat aat ttt ata tta tca gat gtt tgt aaa ttt gat gat ata ttt 2448
 Met Tyr Asn Phe Ile Leu Ser Asp Val Cys Lys Phe Asp Asp Ile Phe
 805 810 815

aaa tat aat tct gat aaa tct gta gaa gtt tta tct aat ttt tta aga 2496
 Lys Tyr Asn Ser Asp Lys Ser Val Glu Val Leu Ser Asn Phe Leu Arg
 820 825 830

aaa tca act aaa aag ttt tat aat gat att aaa aat gat aaa aat ata 2544
 Lys Ser Thr Lys Lys Phe Tyr Asn Asp Ile Lys Asn Asp Lys Asn Ile
 835 840 845

tat aac aat gat gat att aaa aaa ata atg tog tta ttt aaa gtt tat 2592
 Tyr Asn Asn Asp Asp Ile Lys Lys Ile Met Ser Leu Phe Lys Val Tyr
 850 855 860

act ttt gtt tat tca tct tgt aaa taa 2619
 Thr Phe Val Tyr Ser Ser Cys Lys
 865 870

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 <213> Amsacta moorei entomopoxvirus

<220>
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 1 5 10 15

 att cgt aat tta cca ttt aga aat tta att gat tgg atg aaa gaa aat 96
 Ile Arg Asn Leu Pro Phe Arg Asn Leu Ile Asp Ser Met Lys Glu Asn
 20 25 30

 att att att aat aat gaa aca tat aaa ata gaa gaa tta ttt aaa tat 144
 Ile Ile Ile Asn Asn Glu Thr Tyr Lys Ile Glu Glu Leu Phe Lys Tyr
 35 40 45

 att tat tat cat cca cta gat tta tta aca att aga gac att agt aat 192
 Ile Tyr Tyr His Pro Leu Asp Leu Leu Thr Ile Arg Asp Ile Ser Asn
 50 55 60

 gca gat aga aaa gat gaa tat gtt aaa caa ttt gta aat aat tta tat 240
 Ala Asp Arg Lys Asp Glu Tyr Val Lys Gln Phe Val Asn Asn Leu Tyr
 65 70 75 80

 ctt aga tat gca tat aac gaa atg gat ttt ata aaa aat aat ata aga 288
 Leu Arg Tyr Ala Tyr Asn Glu Met Asp Phe Ile Lys Asn Asn Ile Arg
 85 90 95

 tat gac gat aaa gta tat tct att ata aac gaa att aat tat ttt cca 336
 Tyr Asp Asp Lys Val Tyr Ser Ile Ile Asn Glu Ile Asn Tyr Phe Pro
 100 105 110

 gaa cat act tgg gaa ttt tta aaa tat aga tta tca cac tat gaa tca 384
 Glu His Thr Ser Glu Phe Leu Lys Tyr Arg Leu Ser His Tyr Glu Ser
 115 120 125

 gaa tca aga atc aga gga gga aga gta gta act ttt agc ggt gtt cct 432
 Glu Ser Arg Ile Arg Gly Gly Arg Val Val Thr Phe Ser Gly Val Pro
 130 135 140

 gat aat ggt tat ggt tat tta tta agt caa tca gac cct tca tct aag 480
 Asp Asn Gly Tyr Gly Tyr Leu Leu Ser Gln Ser Asp Pro Ser Ser Lys
 145 150 155 160

 tat ata tgg gca ata gta gat aac tat tta atg att gat aat gaa gat 528
 Tyr Ile Trp Ala Ile Val Asp Asn Tyr Leu Met Ile Asp Asn Glu Asp
 165 170 175

 aaa ttt gat ttt tat acc caa tat att cca ttt att aat tat ttt cta 576
 Lys Phe Asp Phe Tyr Thr Gln Tyr Ile Pro Phe Ile Asn Tyr Phe Leu
 180 185 190

 aaa tta tat tat aat aac atc aca aaa aaa tat att att tta gat cct 624
 Lys Leu Tyr Tyr Asn Asn Ile Thr Lys Lys Tyr Ile Ile Leu Asp Pro
 195 200 205

 agt aat cct gaa gaa aat aaa gat gta cct aac gct aat tta atc gac 672
 Ser Asn Pro Glu Glu Asn Lys Asp Val Pro Asn Ala Asn Leu Ile Asp
 210 215 220

 gaa agt tta aaa aat aaa tat aat aat ttt aca aag aaa tta tca tat 720

Glu Ser Leu Lys Asn Lys Tyr Asn Asn Phe Thr Lys Lys Leu Ser Tyr	
225 230 235 240	
ttt gat ata tca aat agt aga tat aat tct ata aat gat gtg ggt gat	768
Phe Asp Ile Ser Asn Ser Arg Tyr Asn Ser Ile Asn Asp Val Gly Asp	
245 250 255	
ttt aat aat tat tta gat atc aat act aat aaa aat att att gaa aat	816
Phe Asn Asn Tyr Leu Asp Ile Asn Thr Asn Lys Asn Ile Ile Glu Asn	
260 265 270	
tat gat gta att att aat aat att ata aaa tca ata tat cta tat aac	864
Tyr Asp Val Ile Ile Asn Asn Ile Ile Lys Ser Ile Tyr Leu Tyr Asn	
275 280 285	
ata atg gat aca aat gta gaa gat ata tta aat ata ata atg aac gat	912
Ile Met Asp Thr Asn Val Glu Asp Ile Leu Asn Ile Ile Met Asn Asp	
290 295 300	
aca aat tat tta tta ttg aat gaa ata tat agt gaa tat tta cca aac	960
Thr Asn Tyr Leu Leu Leu Asn Glu Ile Tyr Ser Glu Tyr Leu Pro Asn	
305 310 315 320	
tca agc aaa tta tat gtt tta gtg gga tta cgt cgc att ata tat gaa	1008
Ser Ser Lys Leu Tyr Val Leu Val Gly Leu Arg Arg Ile Ile Tyr Glu	
325 330 335	
aaa agc aaa caa aat aaa aat att agc aat tta tat atg tta gat tca	1056
Lys Ser Lys Gln Asn Lys Asn Ile Ser Asn Leu Tyr Met Leu Asp Ser	
340 345 350	
ttt gta agt ata tta tta tat tta tta gaa aga tat tac gaa aat gat	1104
Phe Val Ser Ile Leu Leu Tyr Leu Leu Glu Arg Tyr Tyr Glu Asn Asp	
355 360 365	
ata acc aca ctt aat gaa tct aaa aga tta ata aaa caa tat tat aaa	1152
Ile Thr Thr Leu Asn Glu Ser Lys Arg Leu Ile Lys Gln Tyr Tyr Lys	
370 375 380	
gat aat tta aat tca aaa aat agc gtt aat ttg gat tct ata aat att	1200
Asp Asn Leu Asn Ser Lys Asn Ser Val Asn Leu Asp Ser Ile Asn Ile	
385 390 395 400	
att aaa gaa aat atc aat aat aat att att aat ata aca tta gat gaa	1248
Ile Lys Glu Asn Ile Asn Asn Asn Ile Ile Asn Ile Thr Leu Asp Glu	
405 410 415	
gat gaa caa tca aga tat aat tta ata ata gcc aca aac cca gaa ata	1296
Asp Glu Gln Ser Arg Tyr Asn Leu Ile Ile Ala Thr Asn Pro Glu Ile	
420 425 430	
ata gta aat tat gca agt aga aat tat ttt aac atc agt agt aac gaa	1344
Ile Val Asn Tyr Ala Ser Arg Asn Tyr Phe Asn Ile Ser Ser Asn Glu	
435 440 445	
gat aac aca tca aat gtg tat aaa aaa gca atg gca ttt ttc ata aat	1392
Asp Asn Thr Ser Asn Val Tyr Lys Lys Ala Met Ala Phe Phe Ile Asn	
450 455 460	

aat ttt att gaa aat aat ata act aac gaa aat ata ata aat aat tta	1440
Asn Phe Ile Glu Asn Asn Ile Thr Asn Glu Asn Ile Ile Asn Asn Leu	
465 470 475 480	
tca caa gtt tat act caa aat aca gat ttt att aat att act tat gat	1488
Ser Gln Val Tyr Thr Gln Asn Thr Asp Phe Ile Asn Ile Thr Tyr Asp	
435 490 495	
gat cta aat aat tta aaa ata aaa tat att aat aat tat aat ata aat	1536
Asp Leu Asn Asn Leu Lys Ile Lys Tyr Ile Asn Asn Tyr Asn Ile Asn	
500 505 510	
tta gat att aaa aaa att att aat gac aat cta gaa ata att aga att	1584
Leu Asp Ile Lys Lys Ile Ile Asn Asp Asn Leu Glu Ile Ile Arg Ile	
515 520 525	
tat aaa gat aat gtt tta tat gac act aat att aaa atg aat tat aaa	1632
Tyr Lys Asp Asn Val Leu Tyr Asp Thr Asn Ile Lys Met Asn Tyr Lys	
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Ser Phe Ile Ser Leu Leu Pro Thr Ile Tyr Tyr Ile Ile Phe Tyr Asn	
545 550 555 560	
caa cct ata aat aga aaa ata tat aga aaa gct ata att caa gaa cct	1728
Gln Pro Ile Asn Arg Lys Ile Tyr Arg Lys Ala Ile Ile Gln Glu Pro	
565 570 575	
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Pro Ile Glu Glu Glu Ile Ser Thr Glu Thr Thr Lys Arg Ala Arg Arg	
580 585 590	
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Val Arg Phe Asn Pro Phe Asn Val Glu Glu Thr Ile Ile Glu Pro Lys	
595 600 605	
agt gtt ttt gtt aat aaa agt aaa aat tat tta tat gat aca tta ttt	1872
Ser Val Phe Val Asn Lys Ser Lys Asn Tyr Leu Tyr Asp Thr Leu Phe	
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tgg tct ggc ata tct ata gat gat ttt aat aaa ttt cca tta tac att	1920
Trp Ser Gly Ile Ser Ile Asp Asp Phe Asn Lys Phe Pro Leu Tyr Ile	
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aaa act att atc ttg gat agt tgt ctt att tta gga aga caa ata aac	1968
Lys Thr Ile Ile Leu Asp Ser Cys Leu Ile Leu Gly Arg Gln Ile Asn	
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Asp Asp Gly Ser Ser Thr Cys Val Leu Tyr His Asp Ile Asn Asn Asn	
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Asp Val Thr Lys Ile Cys Ile Ile Pro Tyr Pro Tyr Thr Ala Asn Arg	
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Thr Met Tyr Asp Val Phe Lys Gln Val Ser Asp Lys Leu Arg Ser Met	

690	695	700	
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Tyr Ser Tyr Pro Val Asn Tyr Asn Ile Asn Asn Asn Glu Lys His Leu			
705	710	715	720
aat tta tca aaa aaa gga aat tat aaa ttt atg aat aaa cta gca gaa			2208
Asn Leu Ser Lys Lys Gly Asn Tyr Lys Phe Met Asn Lys Leu Ala Glu			
	725	730	735
tgt aaa gat att aaa gat tta ata caa ttt tat gtt atg gta aga gat			2256
Cys Lys Asp Ile Lys Asp Leu Ile Gln Phe Tyr Val Met Val Arg Asp			
	740	745	750
aca gat cca ggt cat tct gaa ata tca ata cca cca aac caa gaa tta			2304
Thr Asp Pro Gly His Ser Glu Ile Ser Ile Pro Pro Asn Gln Glu Leu			
	755	760	765
tat tta gca ata act tta tta gat tta ttg gga ttt tct cct act tta			2352
Tyr Leu Ala Ile Thr Leu Leu Asp Leu Leu Gly Phe Ser Pro Thr Leu			
	770	775	780
tca aga aga aat act agt att ggt ttt tca tat tac att caa aca gat			2400
Ser Arg Arg Asn Thr Ser Ile Gly Phe Ser Tyr Tyr Ile Gln Thr Asp			
	785	790	800
aga caa gta tct gct cgt aat ttg ata tat ata tta tca aga aac tac			2448
Arg Gln Val Ser Ala Arg Asn Leu Ile Tyr Ile Leu Ser Arg Asn Tyr			
	805	810	815
cca gat atg gta aaa agt aag gaa tta tca gat gta gta att aat ata			2496
Pro Asp Met Val Lys Ser Lys Glu Leu Ser Asp Val Val Ile Asn Ile			
	820	825	830
ttg tgg cca ata ctt gca tat tta aga tat gta tta aat tat tat aga			2544
Leu Ser Pro Ile Leu Ala Tyr Leu Arg Tyr Val Leu Asn Tyr Tyr Arg			
	835	840	845
aca aat aat aca aca tta aca gct gga tct aat aat gca ggt cat gat			2592
Thr Asn Asn Thr Thr Leu Thr Ala Gly Ser Asn Asn Ala Gly His Asp			
	850	855	860
tgt tgt att cct att aaa tca aat cct tta gat tta ctt att aat ata			2640
Cys Cys Ile Pro Ile Lys Ser Asn Pro Leu Asp Leu Leu Ile Asn Ile			
	865	870	880
gat aca tct ttt act gat tcc gac aat ata tta gat ata atg aat aga			2688
Asp Thr Ser Phe Thr Asp Ser Asp Asn Ile Leu Asp Ile Met Asn Arg			
	885	890	895
gat atg ttt aat ttg gat aat gat ata ttt aga caa gta ata caa aat			2736
Asp Met Phe Asn Leu Asp Asn Asp Ile Phe Arg Gln Val Ile Gln Asn			
	900	905	910
aat att tat agc gct ggt agc gtt gat att gtc gat att ata act gat			2784
Asn Ile Tyr Ser Ala Gly Ser Val Asp Ile Val Asp Ile Ile Thr Asp			
	915	920	925

aat att ccc caa aac att tat atg aaa aca aac ata att gat aaa atg 2832
 Asn Ile Pro Gln Asn Ile Tyr Met Lys Thr Asn Ile Ile Asp Lys Met
 930 935 940

tat gat aaa att ttt gct ggt gaa agt att agc gat ata ttg gat ata 2880
 Tyr Asp Lys Ile Phe Ala Gly Glu Ser Ile Ser Asp Ile Leu Asp Ile
 945 950 955 960

cag ttt gat gaa gat att aat gat aat ttt aat tac aat gat gta aat 2928
 Gln Phe Asp Glu Asp Ile Asn Asp Asn Phe Asn Tyr Asn Asp Val Asn
 965 970 975

atg att act aat gat tta atg aaa aaa cta aga aaa tta tta aaa aaa 2976
 Met Ile Thr Asn Asp Leu Met Lys Lys Leu Arg Lys Leu Leu Lys Lys
 980 985 990

aca act att aat aat tta gaa gac aat gct atg ata tta aag tca caa 3024
 Thr Thr Ile Asn Asn Leu Glu Asp Asn Ala Met Ile Leu Lys Ser Gln
 995 1000 1005

atg tta tca tct att aat aat gtt ttt aat cgt tat tct tgt atg 3069
 Met Leu Ser Ser Ile Asn Asn Val Phe Asn Arg Tyr Ser Cys Met
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 Glu Lys Ile Pro Thr Gln Tyr Leu Ile Asn Ile Arg Thr Leu Leu
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aaa caa tat agt aat gaa aat ata aaa att gac gaa gat tta aaa 3159
 Lys Gln Tyr Ser Asn Glu Asn Ile Lys Ile Asp Glu Asp Leu Lys
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aat aat atc caa aca ata att agt aat atc cat agt aat act aaa 3204
 Asn Asn Ile Gln Thr Ile Ile Ser Asn Ile His Ser Asn Thr Lys
 1055 1060 1065

gat ata att aaa att att acc act tta agt gct ggt att gat tta 3249
 Asp Ile Ile Lys Ile Ile Thr Thr Leu Ser Ala Gly Ile Asp Leu
 1070 1075 1080

gtt aga gca tta aaa aga tct aat gca aat gta gaa aat aaa aca 3294
 Val Arg Ala Leu Lys Arg Ser Asn Ala Asn Val Glu Asn Lys Thr
 1085 1090 1095

ata aat ctt gaa ttt cta aaa aaa tta tgt gat att tgt aaa gat 3339
 Ile Asn Leu Glu Phe Leu Lys Lys Leu Cys Asp Ile Cys Lys Asp
 1100 1105 1110

agt ttt tat aaa tat aat aga aat aat gat ata gta tat aaa aat 3384
 Ser Phe Tyr Lys Tyr Asn Arg Asn Asn Asp Ile Val Tyr Lys Asn
 1115 1120 1125

tta cta aaa gat gta ttt aat aat gat aat gaa att aat aat gat 3429
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1145

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 Leu Ile Ala Gly Val Thr Ser Asp Asn Ile Cys Asn Cys Val Asn Asp
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 agt gct atg gat gat tat tta ttt gat aca tta tct gta gat aga tta 144
 Ser Ala Met Asp Asp Tyr Leu Phe Asp Thr Leu Ser Val Asp Arg Leu
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 gat ggc gga tat ata aaa cac gaa tgt ggt ata gaa tgt ggg tgt ttt 192
 Asp Gly Gly Tyr Ile Lys His Glu Cys Gly Ile Glu Cys Gly Cys Phe
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 Asn Gly Lys Leu Met Ala Ser Met Ala Thr Glu Met Ser Arg Asp Asn
 65 70 75 80

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 Leu Ile Ala Ser Cys Ser Lys Ser Ala Gly Ala Ser Asn Val Lys Ser
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 tct aat aat caa aat caa aaa aaa aga aaa tca gaa tct ggt aat aaa 336
 Ser Asn Asn Gln Asn Gln Lys Lys Arg Lys Ser Glu Ser Gly Asn Lys
 100 105 110

 att caa aaa caa tta gat att atg aac aca aaa gaa gat cat att aag 384
 Ile Gln Lys Gln Leu Asp Ile Met Asn Thr Lys Glu Asp His Ile Lys
 115 120 125

 aaa att gct gaa tat gta gct aat aat tta cca aaa tca cct tta aca 432
 Lys Ile Ala Glu Tyr Val Ala Asn Asn Leu Pro Lys Ser Pro Leu Thr
 130 135 140

 tat aca gtt cac gac att aat aga tta att atc aca tct cct ttt aag 480
 Tyr Thr Val His Asp Ile Asn Arg Leu Ile Ile Thr Ser Pro Phe Lys
 145 150 155 160

 gat gtt att tta aac gaa aat gat atg aaa tct ata atc gga ttg gct 528
 Asp Val Ile Leu Asn Glu Asn Asp Met Lys Ser Ile Ile Gly Leu Ala
 165 170 175

 gca gct ttt tat aaa aat aaa aca ata aat cat tca tta tta tca act 576

Ala Ala Phe Tyr Lys Asn Lys Thr Ile Asn His Ser Leu Leu Ser Thr	
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Ile Asn Ile Asn Thr Asn Asp Leu Ile Gln Gln Leu Arg Gln Val Tyr	
195 200 205	
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Asn Leu Ser Thr Leu Val Asp Tyr Asp Ser Phe Leu Asn Asn Leu Lys	
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Val Ala Ser Val Glu Tyr Thr Asp Ile Ala Asp Cys Asn Asp Tyr Ile	
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Lys Tyr Val Pro Asp Glu Pro Asn Val Pro Ser Ile Leu Phe Ala Leu	
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Phe Ser Thr Arg Ile Pro Val Leu Phe Asp Ile Val Val Asn Gln Asp	
260 265 270	
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Leu Phe Lys Leu Gln Gln Glu Leu Gln Thr Asp Asp Tyr Ser Ala Tyr	
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Lys Asn Ile Tyr Leu Leu Leu Phe Arg Leu Ser Asp Arg Glu Pro Tyr	
290 295 300	
tat tca aat caa tct gga gga ctt agt aat aaa att gat gtt tat act	960
Tyr Ser Asn Gln Ser Gly Gly Leu Ser Asn Lys Ile Asp Val Tyr Thr	
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gaa tta agt cgt ata tta tta tct atg tgg att aaa aga tta ata tta	1008
Glu Leu Ser Arg Ile Leu Leu Ser Met Ser Ile Lys Arg Leu Ile Leu	
325 330 335	
aaa att att aaa ggc aca gtt aca gga aac aca gta gct cct ata atg	1056
Lys Ile Ile Lys Gly Thr Val Thr Gly Asn Thr Val Ala Pro Ile Met	
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Ala Leu Leu Ser Ala Ile Leu Lys Ile Trp Ser Tyr Ala Pro Thr Ile	
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Val Leu Lys Asn Ile Ser Ser Asp Phe Arg Thr Glu Thr Val Phe Phe	
385 390 395 400	
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Val Glu Tyr Glu Ile Ser Glu Tyr Asn Gln Phe Glu Asn Gln Asn Ile	
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tac gta agt aca gat tca tta att att caa gag gca gaa gcc atc gat Tyr Val Ser Thr Asp Ser Leu Ile Ile Gln Glu Ala Glu Ala Ile Asp 625 630 635 640	1920
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645

650

655

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2007

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tta tta tta aaa att ggt tac gga ttt tat aaa ttt ata tat tta att 144
Leu Leu Leu Lys Ile Gly Tyr Gly Phe Tyr Lys Phe Ile Tyr Leu Ile
35 40 45
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Thr Ser Ser Glu Val Asn Phe Lys Ser Asn Glu Tyr Phe Lys Phe Ile
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Tyr Pro Asn His Val Phe Tyr Leu Tyr Ser Asn Asn Lys Asp Lys Asp
65 70 75 80
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Val Lys Tyr Leu Leu Gln Ala Tyr Leu Glu Lys Ile Lys Asn Phe Ser
85 90 95
ttt gaa atg aat caa aag tgt gaa aat ttt aga aca tta gtt att tat 336
Phe Glu Met Asn Gln Lys Cys Glu Asn Phe Arg Thr Leu Val Ile Tyr
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gat gat att ggc aaa gac aca aaa gat aaa tta agt aat ttt aca aat 384
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gtg tgc aga cat tcc tta gta tca aat att ttt cta gtt cat aga tta 432
Val Cys Arg His Ser Leu Val Ser Asn Ile Phe Leu Val His Arg Leu
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Glu His Leu Asp Thr Thr Thr Arg Asp Ser Leu Ser Tyr His Val Ile
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Asn Ser Glu Ser Glu Asn Met Asp Leu Ile Pro Cys Asn Lys Asn Leu	
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130 135 190	
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Gln Ser Lys Tyr Tyr Ile Tyr Cys Ile Ile Tyr Asp Ser Val Ser Tyr	
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Ser Cys Leu Ile Ser Asp Asp Asp Leu Glu Asn Ile Lys Asn Glu Asp	
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Leu Cys Ser Glu Val Ile Asn Asn Val Val Asn Asp Phe Ser Phe Ser	
35 40 45	
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Asn Ile Glu Lys Asn Phe Lys Asn Ile Lys Lys Ile Asn Lys Phe Lys	
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tat aaa att att aat gat att aca aat gta act gaa aca gat tat ttt	240
Tyr Lys Ile Ile Asn Asp Ile Thr Asn Val Thr Glu Thr Asp Tyr Phe	
65 70 75 90	
aaa cca tat ttt aaa atg aaa cca tat atg gct aat caa tat ata tat	288
Lys Pro Tyr Phe Lys Met Lys Pro Tyr Met Ala Asn Gln Tyr Ile Tyr	
85 90 95	
cat ata cat act gga gga tat ggc atg act gtt cgt att aat gaa agt	336
His Ile His Thr Gly Gly Tyr Gly Met Thr Val Arg Ile Asn Glu Ser	

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Ile	Asn	Phe	Ile	Leu	Asp	Lys	Asn	Tyr	Ser	Asn	Ile	Asp	Ile	Tyr	Asn																								
180										185										190																			
aca	tat	tta	gat	ttt	aat	aaa	atg	aat	agt	att	tat	aga	tct	tta	aca	624																							
Thr	Tyr	Leu	Asp	Phe	Asn	Lys	Met	Asn	Ser	Ile	Tyr	Arg	Ser	Leu	Thr																								
195										200										205																			
aaa	gat	gaa	gaa	tta	tta	tat	aaa	tgt	ttt	act	tat	ttt	tat	aaa	aaa	672																							
Lys	Asp	Glu	Glu	Leu	Leu	Tyr	Lys	Cys	Phe	Thr	Tyr	Phe	Tyr	Lys	Lys																								
210										215										220																			
tat	ttt	aaa	aat	att	ttt	aat	gtt	ata	atg	att	aat	aat	tat	tca	tca	720																							
Tyr	Phe	Lys	Asn	Ile	Phe	Asn	Val	Ile	Met	Ile	Asn	Asn	Tyr	Ser	Ser																								
225										230										235										240									
ata	att	tat	tat	tta	agt	act	att	aaa	gat	tta	tta	act	aat	aaa	gat	768																							
Ile	Ile	Tyr	Tyr	Leu	Ser	Thr	Ile	Lys	Asp	Leu	Leu	Thr	Asn	Lys	Asp																								
245										250										255																			
tat	aaa	gac	aaa	ata	tat	gga	tct	att	ata	ata	atg	cct	tta	gct	ata	816																							
Tyr	Lys	Asp	Lys	Ile	Tyr	Gly	Ser	Ile	Ile	Ile	Met	Pro	Leu	Ala	Ile																								
260										265										270																			
tgt	ggg	tgg	aat	gag	ttg	aaa	gtt	tca	ata	tat	aat	gac	aca	tat	gtt	864																							
Cys	Ala	Ser	Asn	Glu	Leu	Lys	Leu	Ser	Ile	Tyr	Asn	Asp	Thr	Tyr	Val																								
275										280										285																			
cca	gat	atg	ata	aat	gga	aat	att	gca	tat	gaa	gta	aat	aat	aga	tat	912																							
Pro	Asp	Met	Ile	Asn	Gly	Asn	Ile	Ala	Tyr	Glu	Val	Asn	Asn	Arg	Tyr																								
290										295										300																			
ata	aga	cat	att	gta	tta	gtt	gtt	tta	tta	tta	ata	tgt	ata	cca	aac	960																							
Ile	Arg	His	Ile	Val	Leu	Val	Val	Leu	Leu	Leu	Ile	Cys	Ile	Pro	Asn																								
305										310										315										320									
aaa	gat	aga	atg	ata	ttt	ttt	cac	aat	gat	ata	aaa	ccc	aat	aat	ata	1008																							
Lys	Asp	Arg	Met	Ile	Phe	Phe	His	Asn	Asp	Ile	Lys	Pro	Asn	Asn	Ile																								
325										330										335																			

tta gtt ttt cct aat gta aat aaa gaa aaa tta ata ata aaa tat aac 1056
Leu Val Phe Pro Asn Val Asn Lys Glu Lys Leu Ile Ile Lys Tyr Asn
340 345 350

aat agg aat ata ata ttt aaa gaa tta tat ata tta aaa tta aca gat 1104
Asn Arg Asn Ile Ile Phe Lys Glu Leu Tyr Ile Leu Lys Leu Thr Asp
355 360 365

ttt gat tta tct aga ata gaa gga tta gat aac aat aga att aaa aat 1152
Phe Asp Leu Ser Arg Ile Glu Gly Leu Asp Asn Asn Arg Ile Lys Asn
370 375 380

tct cca ata tta tta tat aat aac ata att aac gat ata tat tat ttt 1200
Ser Pro Ile Leu Leu Tyr Asn Asn Ile Ile Asn Asp Ile Tyr Tyr Phe
385 390 395 400

ttt tat aga tta aaa tat gat ttt ttt tta aat tta aaa aca ata gat 1248
Phe Tyr Arg Leu Lys Tyr Asp Phe Phe Leu Asn Leu Lys Thr Ile Asp
405 410 415

cca gag tta aac gaa cat ata gaa aat aaa ttt tta tta aaa aaa tat 1296
Pro Glu Leu Asn Glu His Ile Glu Asn Lys Phe Leu Leu Lys Lys Tyr
420 425 430

atg aaa gat act ata aat aat cat aat tac aaa gga aat gaa aaa atg 1344
Met Lys Asp Thr Ile Asn Asn His Asn Tyr Lys Gly Asn Glu Lys Met
435 440 445

tct ata agt ttt gtt aat gat ttc ata ttt aat tct gga tta ttt aat 1392
Ser Ile Ser Phe Val Asn Asp Phe Ile Phe Asn Ser Gly Leu Phe Asn
450 455 460

tat tgg tta gat taa 1407
Tyr Trp Leu Asp
465

<210> 51
<211> 714
<212> DNA
<213> Amsacta moorei entomopoxvirus

<210>
<211> exon
<222> (1)..(714)

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Met Ser Asp Val Asp Tyr Asp Asp Asp Gln Leu Glu Pro Ser Asp Glu
1 5 10 15

gaa gat atg gat gat cta gtg tat agt gaa gtt tgt gca aat gat gaa 96
Glu Asp Met Asp Asp Leu Val Tyr Ser Glu Val Cys Ala Asn Asp Glu
20 25 30

tct gac gaa tct gaa ata aat tta tta gat gaa ata att aac gaa gaa 144
Ser Asp Glu Ser Glu Ile Asn Leu Leu Asp Glu Ile Ile Asn Glu Glu
35 40 45

caa gaa atg gaa ata att aaa aaa ata aaa acc aaa gat aaa att aaa Gln Glu Met Glu Ile Ile Lys Lys Ile Lys Thr Lys Asp Lys Ile Lys 50 55 60	192
tat ttt aaa ggt aaa att ata gat atg aat aaa ata aat aaa gca aaa Tyr Phe Lys Gly Lys Ile Ile Asp Met Asn Lys Ile Asn Lys Ala Lys 65 70 75 80	240
gaa aaa tat tta tat aat ata aaa ttt aat gaa tta ttg tot ata ttt Glu Lys Tyr Leu Tyr Asn Ile Lys Phe Asn Glu Leu Leu Ser Ile Phe 85 90 95	288
cta aat tat act aat att tta caa agt ggt gga ttg cca tta tta gat Leu Asn Tyr Thr Asn Ile Leu Gln Ser Gly Gly Leu Pro Leu Leu Asp 100 105 110	336
gaa att aaa tta aaa aat aat tat aat att gaa tta ttt tca aat tot Glu Ile Lys Leu Lys Asn Asn Tyr Asn Ile Glu Leu Phe Ser Asn Ser 115 120 125	384
ttt aca aca cca gaa aca gca gca atg ata atg tta ata att atg aat Ser Thr Thr Pro Glu Thr Ala Ala Met Ile Met Leu Ile Ile Met Asn 130 135 140	432
ata cct atg tgt gtt aaa aaa aac aat aaa ata tat aat aga gaa gta Ile Pro Met Cys Val Lys Lys Asn Asn Lys Ile Tyr Asn Arg Glu Val 145 150 155 160	480
tta aat ata gat aaa ttg aat atc gat tat ata aat tgt tat tac caa Leu Asn Ile Asp Lys Leu Asn Ile Asp Tyr Ile Asn Cys Tyr Tyr Gln 165 170 175	528
aat gta aaa aat atg tta cga tgt gtt aca tat aat tot aat aat aaa Asn Val Lys Asn Met Leu Arg Cys Val Thr Tyr Asn Ser Asn Asn Lys 180 185 190	576
ttt gat ttt aat aaa ttt aaa att tta ttt cgg tta ttt ata gaa tat Phe Asp Phe Asn Lys Phe Lys Ile Leu Phe Pro Leu Phe Ile Glu Tyr 195 200 205	624
ata aat cgt gat gaa att agt aat gaa gaa tta gat gaa att aaa aat Ile Asn Arg Asp Glu Ile Ser Asn Glu Glu Leu Asp Glu Ile Lys Asn 210 215 220	672
gtt aaa aga att ata aca aat tat gat tat gaa aat tta taa Val Lys Arg Ile Ile Thr Asn Tyr Asp Tyr Glu Asn Leu 225 230 235	714

<210> 52
 <211> 246
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
 <221> exon
 <222> (1)..(246)

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 Met Gln Ile Phe Ile Lys Thr Leu Thr Gly Lys Thr Ile Thr Leu Glu
 1 5 10 15
 gta gaa agt tca gat act ata tca aat att aaa aat aaa ata caa gat 96
 Val Glu Ser Ser Asp Thr Ile Ser Asn Ile Lys Asn Lys Ile Gln Asp
 20 25 30
 aaa gaa gga att cct ccg gat cag caa aga ttg att ttt gct gga aaa 144
 Lys Glu Gly Ile Pro Pro Asp Gln Gln Arg Leu Ile Phe Ala Gly Lys
 35 40 45
 caa tta gat gat agc aga act ctt tca gat tat aat ata tct aaa gaa 192
 Gln Leu Asp Asp Ser Arg Thr Leu Ser Asp Tyr Asn Ile Ser Lys Glu
 50 55 60
 tct act tta cat ttg gta tta aga ctt aga ggt gga acg aat ata aat 240
 Ser Thr Leu His Leu Val Leu Arg Leu Arg Gly Gly Thr Asn Ile Asn
 65 70 75 80
 tat tag 246
 Tyr

<210> 53
 <211> 2013
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
 <221> exon
 <222> (1)..(2013)

<400> 53
 atg aat aaa gtt ata tta gat gat ttg aga aat gat aat att ccg aac 48
 Met Asn Lys Val Ile Leu Asp Asp Leu Arg Asn Asp Asn Ile Pro Asn
 1 5 10 15
 aat att gct caa att ttg cct cat cag tta gca aca tta gat ttt tta 96
 Asn Ile Ala Gln Ile Leu Pro His Gln Leu Ala Thr Leu Asp Phe Leu
 20 25 30
 tat caa aaa tgt ata aat aat gct aat agt gtt tta ttg ttt cat aaa 144
 Tyr Gln Lys Cys Ile Asn Asn Ala Asn Ser Val Leu Leu Phe His Lys
 35 40 45
 atg ggt tct ggt aaa aca att att tct ctt ttg ttt agc ata tta ata 192
 Met Gly Ser Gly Lys Thr Ile Ile Ser Leu Leu Phe Ser Ile Leu Ile
 50 55 60
 tgt aat att aaa aaa gtt ata ata gta ttg cct agt tat agt ata tta 240
 Cys Asn Ile Lys Lys Val Ile Ile Val Leu Pro Ser Tyr Ser Ile Leu
 65 70 75 80
 gaa atg tgg aaa caa aat tta tat aga tct tta att tta ctt cct aat 288
 Glu Met Trp Lys Gln Asn Leu Tyr Arg Ser Leu Ile Leu Leu Pro Asn

85										90					95					
aaa gaa tat aat tta caa aat att gaa ttt aca act aga aca aaa tta	336																			
Lys Glu Tyr Asn Leu Gln Asn Ile Glu Phe Thr Thr Arg Thr Lys Leu																				
190	105	110																		
aac gaa gat ata atg tta ata ggt aaa act gat ata ata aat gaa aaa	364																			
Asn Glu Asp Ile Met Leu Ile Gly Lys Thr Asp Ile Ile Asn Glu Lys																				
115	120	125																		
tta aaa aat tat aac gat tat att atg ata ata gat gaa gca cat aat	432																			
Leu Lys Asn Tyr Asn Asp Tyr Ile Met Ile Ile Asp Glu Ala His Asn																				
130	135	140																		
ttt ttt gga aat atg aca ggt agt gta tta tct act cta aga aaa aat	480																			
Phe Phe Gly Asn Met Thr Gly Ser Val Leu Ser Thr Leu Arg Lys Asn																				
145	150	155	160																	
aca aat ata ata tat gtt tta ttg aca ggt agt cgg ata aca aat act	528																			
Thr Asn Ile Ile Tyr Val Leu Leu Thr Gly Ser Pro Ile Thr Asn Thr																				
165	170	175																		
gtt tog aca ata aaa gat att gtg gaa tta tta act agg gaa aca ttt	576																			
Val Ser Thr Ile Lys Asp Ile Val Glu Leu Leu Thr Arg Glu Thr Phe																				
180	185	190																		
gat gaa aat aag tat att aaa ata ggt gga aat cgt gtt ttt gaa aaa	624																			
Asp Glu Asn Lys Tyr Ile Lys Ile Gly Gly Asn Arg Val Phe Glu Lys																				
195	200	205																		
agt ata aat aac gaa ggt att gca ttt tta aat aaa aat cta aag ggt	672																			
Ser Ile Asn Asn Glu Gly Ile Ala Phe Leu Asn Lys Asn Leu Lys Gly																				
210	215	220																		
tta ata tca tat tat gat gaa gag agg aaa gat gtt cct gaa gta aaa	720																			
Leu Ile Ser Tyr Tyr Asp Glu Glu Arg Lys Asp Val Pro Glu Val Lys																				
225	230	235	240																	
tac aga ggt aaa aaa ata ttt cta tgt cct ttg aca tta tgt cca atg	768																			
Tyr Arg Gly Lys Lys Ile Phe Leu Cys Pro Leu Thr Leu Cys Pro Met																				
245	250	255																		
tct aaa tta cat gaa gaa aat tat tat gaa gta gct aga aat act aaa	816																			
Ser Lys Leu His Glu Glu Asn Tyr Tyr Glu Val Ala Arg Asn Thr Lys																				
260	265	270																		
aat gat atg ttt gtt aaa tta tta atg agt gtt tog ttg gtt gca tta	864																			
Asn Asp Met Phe Val Lys Leu Leu Met Ser Val Ser Leu Val Ala Leu																				
275	280	285																		
gga tct ata tca aat tat gaa aat ttt tca caa ttt atg gag aca gat	912																			
Gly Ser Ile Ser Asn Tyr Glu Asn Phe Ser Gln Phe Met Glu Thr Asp																				
290	295	300																		
aaa aaa ata ttt gat aat ttt tat att tct aat gga aaa ttt tca gga	960																			
Lys Lys Ile Phe Asp Asn Phe Tyr Ile Ser Asn Gly Lys Phe Ser Gly																				
305	310	315	320																	

tct gaa tta gtt aca tta aat ata tct tct aaa tta aaa act ttt aga	1004
Ser Glu Leu Val Thr Leu Asn Ile Ser Ser Lys Leu Lys Thr Phe Arg	
325 330 335	
gat act ata ttt aaa gaa aga aat gtt ggt aaa cga ttt gta tat ttt	1056
Asp Thr Ile Phe Lys Glu Arg Asn Val Gly Lys Arg Phe Val Tyr Phe	
340 345 350	
gct aat agt act ata gga agt gct ata ata aga agt gtt atg tta gca	1104
Ala Asn Ser Thr Ile Gly Ser Ala Ile Ile Arg Ser Val Met Leu Ala	
355 360 365	
aat ggc ata tct gaa tat gga aaa gaa att gtt aat aat ttt aca tgt	1152
Asn Gly Ile Ser Glu Tyr Gly Lys Glu Ile Val Asn Asn Phe Thr Cys	
370 375 380	
gtt aat tgt ata aag gat aaa att tgt cac aat gga gaa tgt att cct	1200
Val Asn Cys Ile Lys Asp Lys Ile Cys His Asn Gly Glu Cys Ile Pro	
385 390 395 400	
atg aga ttt gta ata att aca tca aaa gaa tta aat aaa gga aat agt	1248
Met Arg Phe Val Ile Ile Thr Ser Lys Glu Leu Asn Lys Gly Asn Ser	
405 410 415	
aat tat ata aat aat att tta agt att ttt aac gaa gat att aat gat	1296
Asn Tyr Ile Asn Asn Ile Leu Ser Ile Phe Asn Glu Asp Ile Asn Asp	
420 425 430	
gat gga aat aat ata atg ttt tta ttt ggt tca aaa att ata tca gaa	1344
Asp Gly Asn Asn Ile Met Phe Leu Phe Gly Ser Lys Ile Ile Ser Glu	
435 440 445	
gct tat act tta aaa aac gta aaa gat ata tgg ttt tta act gtt cct	1392
Ala Tyr Thr Leu Lys Asn Val Lys Asp Ile Trp Phe Leu Thr Val Pro	
450 455 460	
gaa aca aaa tct gaa tta gat caa tgt gta gct aga gct gtt aga tca	1440
Glu Thr Lys Ser Glu Leu Asp Gln Cys Val Ala Arg Ala Val Arg Ser	
465 470 475 480	
ttt tct tat aaa gat act aat aca aaa gta ata att aga ata tgt att	1488
Phe Ser Tyr Lys Asp Thr Asn Thr Lys Val Ile Ile Arg Ile Cys Ile	
485 490 495	
gca tca aca aca aat aca tta agt aac gat gtt tct aaa aca att gaa	1536
Ala Ser Thr Thr Asn Thr Leu Ser Asn Asp Val Ser Lys Thr Ile Glu	
500 505 510	
caa tat aaa gat gtt aat att tct gat gtt tat aaa aat act tta tta	1584
Gln Tyr Lys Asp Val Asn Ile Ser Asp Val Tyr Lys Asn Thr Leu Leu	
515 520 525	
aat aaa att gaa tta ttg tta acg gaa agt tog tat act tta tct tat	1632
Asn Lys Ile Glu Leu Leu Leu Thr Glu Ser Ser Tyr Thr Leu Ser Tyr	
530 535 540	
gat ttt aga aaa caa tta tat tct gaa tta aaa ttt gaa aaa tct aaa	1680
Asp Phe Arg Lys Gln Leu Tyr Ser Glu Leu Lys Phe Glu Lys Ser Lys	

545	550	555	560	
gta ggt gat aat ata ttt aaa aat cta act att tta tct tca gat acc	1728			
Val Ala Asp Asn Ile Phe Lys Asn Leu Thr Ile Leu Ser Ser Asp Thr				
565 570 575				
atc gag agt gat gtt ttg gaa tgt ttt gtt tta gaa aaa atc cga aga	1776			
Ile Glu Ser Asp Val Leu Glu Cys Phe Val Leu Glu Lys Ile Arg Arg				
580 585 590				
tat tgt tat tac aat aca aga ttt aaa ttt aca aca tta aac gaa tat	1824			
Tyr Cys Tyr Tyr Asn Thr Arg Phe Lys Phe Thr Thr Leu Asn Glu Tyr				
595 600 605				
ata att aaa aat ata gat att aaa tat aat gat aaa ata aaa gaa tat	1872			
Ile Ile Lys Asn Ile Asp Ile Lys Tyr Asn Asp Lys Ile Lys Glu Tyr				
610 615 620				
att aat aat gct ata gaa tca tca ttt gtt ata gaa aat gat ata ttt	1920			
Ile Asn Asn Ala Ile Glu Ser Ser Phe Val Ile Glu Asn Asp Ile Phe				
625 630 635 640				
ggc aat tgc tat tta aca tat ttt aaa aat gat att gtt acg gtt ccc	1968			
Gly Asn Cys Tyr Leu Thr Tyr Phe Lys Asn Asp Ile Val Thr Val Pro				
645 650 655				
ata gta tta gaa tat aat aat cat cta tta tca gtt aga ttg tga	2013			
Ile Val Leu Glu Tyr Asn Asn His Leu Leu Ser Val Arg Leu				
660 665 670				

<210> 54
 <211> 1395
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
 <221> exon
 <222> (1)..(1395)

<400> 54	
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Met Asn Asn Lys Ile Arg Arg Phe Pro Asn Lys Asn Leu Lys Met Pro	
1 5 10 15	
gaa tct ggt att aat ttt atg tct atg tta ttt ttt agt aaa ata gat	96
Glu Ser Gly Ile Asn Phe Met Ser Met Leu Phe Phe Ser Lys Ile Asp	
20 25 30	
aat atg gta tat ttt ata aat cct att aaa tat aat act aat gca aat	144
Asn Met Val Tyr Phe Ile Asn Pro Ile Lys Tyr Asn Thr Asn Ala Asn	
35 40 45	
ata gct ata tta gaa aaa ata gat gat gat gat gaa aca aga ggt aaa	192
Ile Ala Ile Leu Glu Lys Ile Asp Asp Asp Asp Glu Thr Arg Gly Lys	
50 55 60	
gta aca ttt ata cct ata aaa tac ttg gaa ata tta tat aat gaa tta	240

Val	Thr	Phe	Ile	Pro	Ile	Lys	Tyr	Leu	Glu	Ile	Leu	Tyr	Asn	Glu	Leu		
65					70					75					80		
gtt	tta	gat	cca	aat	cat	att	aat	aat	att	aat	ttt	gaa	aat	aat	att	288	
Val	Leu	Asp	Pro	Asn	His	Ile	Asn	Asn	Ile	Asn	Phe	Glu	Asn	Asn	Ile		
				85					90					95			
aaa	aga	aaa	ttt	ttt	cta	ttt	tgg	act	ata	aaa	aaa	tat	tta	caa	gat	336	
Lys	Arg	Lys	Phe	Phe	Leu	Phe	Trp	Thr	Ile	Lys	Lys	Tyr	Leu	Gln	Asp		
			100					105					110				
aaa	aat	ata	aat	att	aat	act	ttt	att	aca	tct	aaa	aaa	tat	aaa	ggc	384	
Lys	Asn	Ile	Asn	Ile	Asn	Thr	Phe	Ile	Thr	Ser	Lys	Lys	Tyr	Lys	Gly		
		115					120					125					
att	cca	tta	gta	tat	atg	aga	aag	tct	ttt	cta	aaa	tca	gaa	tta	tcc	432	
Ile	Pro	Leu	Val	Tyr	Met	Arg	Lys	Ser	Phe	Leu	Lys	Ser	Glu	Leu	Ser		
	130					135					140						
aaa	aca	aga	gat	ttt	tct	aca	ttt	gcc	aca	att	tat	gat	gat	tgg	gat	480	
Lys	Thr	Arg	Asp	Phe	Ser	Thr	Phe	Ala	Thr	Ile	Tyr	Asp	Asp	Leu	Asp		
	145				150					155				160			
gct	caa	ata	gga	ata	cgg	cct	tgg	gga	ttt	aat	cct	aaa	cct	aaa	gct	528	
Ala	Gln	Ile	Gly	Ile	Pro	Pro	Leu	Gly	Phe	Asn	Pro	Lys	Pro	Lys	Ala		
			165					170						175			
tac	cca	aga	aaa	cat	gat	aaa	tct	aca	tgg	tta	agt	tgg	gga	gat	ata	576	
Tyr	Pro	Arg	Lys	His	Asp	Lys	Ser	Thr	Trp	Leu	Ser	Ser	Gly	Asp	Ile		
			180					185					190				
tat	aat	tgt	ata	tat	cca	tta	act	atg	att	aat	aca	gat	tat	gat	tat	624	
Tyr	Asn	Cys	Ile	Tyr	Pro	Leu	Thr	Met	Ile	Asn	Thr	Asp	Tyr	Asp	Tyr		
		195					200					205					
ttt	cat	tgg	att	tta	ttt	gaa	aaa	act	gat	aaa	aat	att	gct	aca	gta	672	
Phe	His	Leu	Ile	Leu	Phe	Glu	Lys	Thr	Asp	Lys	Asn	Ile	Ala	Thr	Val		
	210					215					220						
gct	tca	tct	atg	aga	tgc	tat	aaa	cct	gaa	gat	aga	gta	aaa	ttt	ttt	720	
Ala	Ser	Ser	Met	Arg	Cys	Tyr	Lys	Leu	Glu	Asp	Arg	Val	Lys	Phe	Phe		
	225				230					235				240			
tta	atg	aat	gat	aaa	aaa	aga	ttt	ttt	atg	ttt	cct	ata	att	tat	aat	768	
Leu	Met	Asn	Asp	Lys	Lys	Arg	Phe	Phe	Met	Phe	Pro	Ile	Ile	Tyr	Asn		
				245					250					255			
gat	cat	ttt	act	tgt	tgc	gta	ata	gat	aaa	cac	ttt	gat	aaa	gat	aaa	816	
Asp	His	Phe	Thr	Cys	Cys	Val	Ile	Asp	Lys	His	Phe	Asp	Lys	Asp	Lys		
			260					265				270					
aaa	gct	gca	tac	ttt	ttt	aat	agt	agt	ggc	tat	ata	cca	gaa	ott	ata	864	
Lys	Ala	Ala	Tyr	Phe	Phe	Asn	Ser	Ser	Gly	Tyr	Ile	Pro	Glu	Leu	Ile		
		275					280					285					
aaa	caa	aat	aaa	aaa	tat	atg	ttt	att	gaa	tct	gat	atg	act	ata	aaa	912	
Lys	Gln	Asn	Lys	Lys	Tyr	Met	Phe	Ile	Glu	Ser	Asp	Met	Thr	Ile	Lys		
	290					295					300						

agc cat aaa cac tac aat agt act cct aat act aat tat gct tat tta 960
 Ser His Lys His Tyr Asn Ser Thr Pro Asn Thr Asn Tyr Ala Tyr Leu
 305 310 315 320

 tac att gat gta cta tca gaa tat tta aat gat ata ttt aaa aat gta 1008
 Tyr Ile Asp Val Leu Ser Glu Tyr Leu Asn Asp Ile Phe Lys Asn Val
 325 330 335

 aat tat tac ttt ttt aat act ttt gaa tta caa tat gat agt ccc gat 1056
 Asn Tyr Tyr Phe Phe Asn Thr Phe Glu Leu Gln Tyr Asp Ser Pro Asp
 340 345 350

 tgt ggt atg ttt aat ata ata ttt tta tat tat ata gtt tat ttc aac 1104
 Cys Gly Met Phe Asn Ile Ile Phe Leu Tyr Tyr Ile Val Tyr Phe Asn
 355 360 365

 ata aaa tct aaa ttt gaa ttt aaa aaa tta tat tat tct atg agt ttt 1152
 Ile Lys Ser Lys Phe Glu Phe Lys Lys Leu Tyr Tyr Ser Met Ser Phe
 370 375 380

 att ggt gat tta ttg gct agt agt tat aga ggt gca tta ttt att tct 1200
 Ile Gly Asp Leu Leu Ala Ser Ser Tyr Arg Gly Ala Leu Phe Ile Ser
 385 390 395 400

 aga tat gat att aat agt att gac gaa ttt aaa aat aca tta gaa ata 1048
 Arg Tyr Asp Ile Asn Ser Ile Asp Glu Phe Lys Asn Thr Leu Glu Ile
 405 410 415

 ttt aat ata aaa aat aaa aag ttt atg gaa tta ata gat atg tat aaa 1296
 Phe Asn Ile Lys Asn Lys Lys Phe Met Glu Leu Ile Asp Met Tyr Lys
 420 425 430

 aaa aat agt aat aga att atg aat gta tgt agt aaa ata aaa aat gat 1344
 Lys Asn Ser Asn Arg Ile Met Asn Val Cys Ser Lys Ile Lys Asn Asp
 435 440 445

 tat gat agt tat att gat aat gag aag aat agt tta gaa tct aat att 1392
 Tyr Asp Ser Tyr Ile Asp Asn Glu Lys Asn Ser Leu Glu Ser Asn Ile
 450 455 460

 taa 1395

<210> 55
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 <213> Amsacta moorei entomopoxvirus

<220>
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<400> 55
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 Met Phe Ala Leu Asp Ser Ile Val Gly Lys His Ile Asn Tyr Ala Leu
 1 5 10 15

gat aaa aca caa cat ttg cct aat aaa att atg aat aat att aca aat 96

Asp	Lys	Thr	Gln	His	Leu	Pro	Asn	Lys	Ile	Met	Asn	Asn	Ile	Thr	Asn	
			20					25					30			
act	gaa	att	aca	tta	caa	gat	tat	caa	tat	ttt	gta	agt	aga	ata	ttc	134
Thr	Glu	Ile	Thr	Leu	Gln	Asp	Tyr	Gln	Tyr	Phe	Val	Ser	Arg	Ile	Phe	
		35					40					45				
ata	gga	tta	aaa	aat	ttg	aat	agt	atg	tta	tta	ttt	tgg	gat	act	ggc	142
Ile	Gly	Leu	Lys	Asn	Leu	Asn	Ser	Met	Leu	Leu	Phe	Trp	Asp	Thr	Gly	
	50					55					60					
atg	gga	aaa	aca	tta	act	gct	gtg	tat	att	ata	aaa	tat	ata	aaa	gaa	140
Met	Gly	Lys	Thr	Leu	Thr	Ala	Val	Tyr	Ile	Ile	Lys	Tyr	Ile	Lys	Glu	
65					70				75						80	
tta	ttt	cca	aga	tgg	ata	att	tta	ata	ttt	att	aaa	aaa	tca	tta	tac	148
Leu	Phe	Pro	Arg	Trp	Ile	Ile	Leu	Ile	Phe	Ile	Lys	Lys	Ser	Leu	Tyr	
				85				90						95		
ata	gat	cct	tgg	tta	aat	act	ata	aga	tca	tat	ata	tca	gat	acc	agt	136
Ile	Asp	Pro	Trp	Leu	Asn	Thr	Ile	Arg	Ser	Tyr	Ile	Ser	Asp	Thr	Ser	
			100					105					110			
aat	ata	aaa	ttt	ata	tat	tat	gat	tgg	tca	tct	agt	tta	gat	aaa	ttt	144
Asn	Ile	Lys	Phe	Ile	Tyr	Tyr	Asp	Ser	Ser	Ser	Ser	Leu	Asp	Lys	Phe	
		115					120					125				
aat	aat	ata	tat	aga	tct	ata	gaa	agt	tct	ctt	aat	aaa	aaa	agt	aga	130
Asn	Asn	Ile	Tyr	Arg	Ser	Ile	Glu	Ser	Ser	Leu	Asn	Lys	Lys	Ser	Arg	
	130					135					140					
tta	cta	ata	ata	ata	gac	gaa	gtt	cat	aaa	tta	ata	tca	aga	act	gtt	146
Leu	Leu	Ile	Ile	Ile	Asp	Glu	Val	His	Lys	Leu	Ile	Ser	Arg	Thr	Val	
145					150				155						160	
aaa	aaa	gat	aat	aac	gaa	aga	aat	ttt	act	cct	att	tat	aaa	aaa	tta	148
Lys	Lys	Asp	Asn	Asn	Glu	Arg	Asn	Phe	Thr	Pro	Ile	Tyr	Lys	Lys	Leu	
			165					170					175			
ata	aaa	tta	gca	aat	tto	gaa	aat	aat	aaa	ata	tta	tgt	atg	tcc	gct	176
Ile	Lys	Leu	Ala	Asn	Phe	Glu	Asn	Asn	Lys	Ile	Leu	Cys	Met	Ser	Ala	
			180					185					190			
act	cca	gta	act	aat	aat	att	tct	gaa	ttt	aat	aat	tta	ata	ggc	tta	184
Thr	Pro	Val	Thr	Asn	Asn	Ile	Ser	Glu	Phe	Asn	Asn	Leu	Ile	Gly	Leu	
		195					200					205				
ctt	aga	cca	aat	gtt	atg	aat	ata	aaa	gaa	gaa	tat	ata	aat	aat	gga	182
Leu	Arg	Pro	Asn	Val	Met	Asn	Ile	Lys	Glu	Glu	Tyr	Ile	Asn	Asn	Gly	
	210					215					220					
aag	tta	att	aat	ttt	aag	gaa	tta	aga	gaa	aca	tta	tta	gct	ata	tgt	720
Lys	Leu	Ile	Asn	Phe	Lys	Glu	Leu	Arg	Glu	Thr	Leu	Leu	Ala	Ile	Cys	
225					230				235						240	
tct	tat	aaa	aga	tta	ata	gaa	gca	gat	agt	tta	aca	gaa	aca	aat	tat	768
Ser	Tyr	Lys	Arg	Leu	Ile	Glu	Ala	Asp	Ser	Leu	Thr	Glu	Thr	Asn	Tyr	
				245				250						255		

ata gat gga tat gca aaa aaa aat ata ttt tat cat aat ata att atg Ile Asp Gly Tyr Ala Lys Lys Asn Ile Phe Tyr His Asn Ile Ile Met 260 265 270	816
tca gat gag caa tct aaa tta tat aat atg gca gaa aaa tat gat tat Ser Asp Glu Gln Ser Lys Leu Tyr Asn Met Ala Glu Lys Tyr Asp Tyr 275 280 285	864
aaa act gaa tta ggt ggt tta aaa act atg aga aga tta ata tct tca Lys Thr Glu Leu Gly Gly Leu Lys Thr Met Arg Arg Leu Ile Ser Ser 290 295 300	912
ttt gct ttt tat gat ctt aaa ata aaa gga gat tta gat aat ata gaa Phe Ala Phe Tyr Asp Leu Lys Ile Lys Gly Asp Leu Asp Asn Ile Glu 305 310 315 320	960
tat aat gat atg att aaa aga aaa ctt gct gaa ttt tcc gag ttt aca Tyr Asn Asp Met Ile Lys Arg Lys Leu Ala Glu Phe Ser Glu Phe Thr 325 330 335	1008
aaa aat att aat ttc tct gaa tct ttt att gaa agt ttt aaa aat gat Lys Asn Ile Asn Phe Ser Glu Ser Phe Ile Glu Ser Phe Lys Asn Asp 340 345 350	1056
aat ata aaa ata aaa act aat tta cca atc act gat ata aat aat tat Asn Ile Lys Ile Lys Thr Asn Leu Pro Ile Thr Asp Ile Asn Asn Tyr 355 360 365	1104
aat ata tta tat caa tat tcc tgt aaa tat ata gaa act tgt aaa ata Asn Ile Leu Tyr Gln Tyr Ser Cys Lys Tyr Ile Glu Thr Cys Lys Ile 370 375 380	1152
att tta aat tcc aga gga aaa gta tta ata ttt gaa cct tta gtt aat Ile Leu Asn Ser Arg Gly Lys Val Leu Ile Phe Glu Pro Leu Val Asn 385 390 395 400	1200
ttt gaa gga ata tca agt tta aaa tgt tat ttt aat tgt ttt aat att Phe Glu Gly Ile Ser Ser Leu Lys Cys Tyr Phe Asn Cys Phe Asn Ile 405 410 415	1248
tct tat att gaa tat tct agc aaa act tta aaa act aga gat aat gaa Ser Tyr Ile Glu Tyr Ser Ser Lys Thr Leu Lys Thr Arg Asp Asn Glu 420 425 430	1296
tta aac gaa tat aat aat tat gaa aat aat aat ggt aaa aaa gta aaa Leu Asn Glu Tyr Asn Asn Tyr Glu Asn Asn Asn Gly Lys Lys Val Lys 435 440 445	1344
gtt tgc ata ttt tct tac gct gga tct gaa ggc ata tca ttc aaa tgt Val Cys Ile Phe Ser Tyr Ala Gly Ser Glu Gly Ile Ser Phe Lys Cys 450 455 460	1392
att aat gat ata att ata tta gat atg ccc tgg aat gaa tca gaa tta Ile Asn Asp Ile Ile Ile Leu Asp Met Pro Trp Asn Glu Ser Glu Leu 465 470 475 480	1440
aaa caa ata ata gga aga tct ata aga tta aat tct cat aaa gat tta Lys Gln Ile Ile Gly Arg Ser Ile Arg Leu Asn Ser His Lys Asp Leu	1488

485	490	495	
cca caa gaa tat aga tat gtt aac gtt cat ttt tta ata tca tat acc			1536
Pro Gln Glu Tyr Arg Tyr Val Asn Val His Phe Leu Ile Ser Tyr Thr			
500	505	510	
aac aac aga aaa tct gta gat aaa gaa ata tta gat att ata aaa gat			1584
Asn Asn Arg Lys Ser Val Asp Lys Glu Ile Leu Asp Ile Ile Lys Asp			
515	520	525	
aaa caa ggt aaa ata aat gtt ata ttt gat tta tta aaa tca tca tct			1632
Lys Gln Gly Lys Ile Asn Val Ile Phe Asp Leu Leu Lys Ser Ser Ser			
530	535	540	
atc gaa tct att cat aac aca tat aaa tat ata gaa cca gca gaa aat			1680
Ile Glu Ser Ile His Asn Thr Tyr Lys Tyr Ile Glu Pro Ala Glu Asn			
545	550	555	560
gaa ata att ttt gac aca ata cgt aaa act aga atg aaa gaa atg aac			1728
Glu Ile Ile Phe Asp Thr Ile Arg Lys Thr Arg Met Lys Glu Met Asn			
565	570	575	
gta tct aat gtt att att aat ata aaa tta tat ccc ata tca tat tgt			1776
Val Ser Asn Val Ile Ile Asn Ile Lys Leu Tyr Pro Ile Ser Tyr Cys			
580	585	590	
aaa gat tat gat aga gcc act ata tta aaa ggt tta tta aac aaa gac			1824
Lys Asp Tyr Asp Arg Ala Thr Ile Leu Lys Gly Leu Leu Asn Lys Asp			
595	600	605	
aca aat ata gta tat aaa gat aat aca gct gta gca aaa tta atg att			1872
Thr Asn Ile Val Tyr Lys Asp Asn Thr Ala Val Ala Lys Leu Met Ile			
610	615	620	
gat aaa gac aat ata cct ata ttt ata ata gag aat gat aca tta ata			1920
Asp Lys Asp Asn Ile Pro Ile Phe Ile Ile Glu Asn Asp Phe Leu Ile			
625	630	635	640
tat ata gca gat gat tat tat gaa tag			1947
Tyr Ile Ala Asp Asp Tyr Tyr Glu			
645			

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 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
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Met Asn Val Lys Ile Ile Glu Lys Tyr Gln His Phe Lys Glu Asp Lys	
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tat ata tca tat tat aat ata ttt ata tat ata cta gaa gaa tat att	96
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Tyr Ile Ser Tyr Tyr Asn Ile Phe Ile Tyr Ile Leu Glu Glu Tyr Ile
 20 25 30
 ata ata tta tat aat tat aaa tta ata tat ata ata aat aaa aat tat 144
 Ile Ile Leu Tyr Asn Tyr Lys Leu Ile Tyr Ile Ile Asn Lys Asn Tyr
 35 40 45
 ata caa tat atg tat tat aat tat tta ttt aaa aat aat ata tat tat 192
 Ile Glu Tyr Met Tyr Tyr Asn Tyr Leu Phe Lys Asn Asn Ile Tyr Tyr
 50 55 60
 aat tta aaa tta tat aat aat aat aaa tta tta aaa cat aaa cgg tgg 240
 Asn Leu Lys Leu Tyr Asn Asn Asn Lys Leu Leu Lys His Lys Pro Ser
 65 70 75 80
 aaa aaa gta cgc ttt tca tcc gaa cca cca aaa ctc cac att atg tat 288
 Lys Lys Val Arg Phe Ser Ser Glu Pro Pro Lys Leu His Ile Met Tyr
 85 90 95
 gtt tgg tta tat gct gca aaa caa act cga aaa tta tac tgg gat aaa 336
 Val Trp Leu Tyr Ala Ala Lys Gln Thr Arg Lys Leu Tyr Trp Asp Lys
 100 105 110
 ttt ggg att gat aga cat aga ttc aaa aga aga att aat gat ata gat 384
 Phe Ala Ile Asp Arg His Arg Phe Lys Arg Arg Ile Asn Asp Ile Asp
 115 120 125
 ata tca ata tct tgg gtt tta act cca cat cac aga cat aaa att atg 432
 Ile Ser Ile Ser Trp Val Leu Thr Pro His His Arg His Lys Ile Met
 130 135 140
 aaa cat ctt aag tta ata taa 453
 Lys His Leu Lys Leu Ile
 145 150

<210> 57
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 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
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 Met Asp Glu Thr Ile Asn Phe Asn Asn Lys Ser Trp Glu Ile Lys Asn
 1 5 10 15
 tta ata gct aaa ggt ggt ttt gga aca gta tat aaa tta tgc gaa aaa 96
 Leu Ile Ala Lys Gly Gly Phe Gly Thr Val Tyr Lys Leu Cys Glu Lys
 20 25 30
 aat gat aat aat aac tgt tac gct att aaa ata gaa cca tgg gat aat 144
 Asn Asp Asn Asn Asn Cys Tyr Ala Ile Lys Ile Glu Pro Ser Asp Asn
 35 40 45

ggt ccg ttg ttt gta gaa atg cac ttt tat aaa aaa ata aat aaa aat Gly Pro Leu Phe Val Glu Met His Phe Tyr Lys Lys Ile Asn Lys Asn 50 55 60	192
gaa ata aaa aat ttt att gat gcg aaa aat tta agt tat tta gga ata Glu Ile Lys Asn Phe Ile Asp Ala Lys Asn Leu Ser Tyr Leu Gly Ile 65 70 75 80	194
cca tta cta tat cat aat ggt att ata aaa aaa gat aat ata gaa tat Pro Leu Leu Tyr His Asn Gly Ile Ile Lys Lys Asp Asn Ile Glu Tyr 85 90 95	198
aga tat ata gta ata gat tat tat gaa ttt aat tta aat gat ata tta Arg Tyr Ile Val Ile Asp Tyr Tyr Glu Phe Asn Leu Asn Asp Ile Leu 100 105 110	336
aaa aaa tat ata aaa tta cct ata ata aca ata tat aaa ata act ata Lys Lys Tyr Ile Lys Leu Pro Ile Ile Thr Ile Tyr Lys Ile Thr Ile 115 120 125	384
caa ata tta tat ata tta gaa tat tta cac aaa aaa aaa tat aca cac Gln Ile Leu Tyr Ile Leu Glu Tyr Leu His Lys Lys Lys Tyr Thr His 130 135 140	432
aat gat ata aaa aaa aat aat ata atg ttt aat tca tra tta act aaa Asn Asp Ile Lys Lys Asn Asn Ile Met Phe Asn Ser Ser Leu Thr Lys 145 150 155 160	480
gta tat tta ata gat tac gga cta ata tat aat atg aat tct aat caa Val Tyr Leu Ile Asp Tyr Gly Leu Ile Tyr Asn Met Asn Ser Asn Gln 165 170 175	528
gaa tat aat ata aaa tgt agt aat gat gga act cta gaa tat tta cca Glu Tyr Asn Ile Lys Cys Ser Asn Asp Gly Thr Leu Glu Tyr Leu Pro 180 185 190	576
tta ata act cat tta ttt ggc tta aaa aca tac atg gga gat ata gag Leu Ile Thr His Leu Phe Gly Leu Lys Thr Tyr Met Gly Asp Ile Glu 195 200 205	624
tct ctg atg tat aat att att gaa tgg tat agt gga agt ttg cct tgg Ser Leu Met Tyr Asn Ile Ile Glu Trp Tyr Ser Gly Ser Leu Pro Trp 210 215 220	672
att aaa tat aaa aaa aaa aat gtt ata tta aaa aaa tta gat ttt ttc Ile Lys Tyr Lys Lys Lys Asn Val Ile Leu Lys Lys Lys Leu Asp Phe Phe 225 230 235 240	720
aac act tgt tta act aat tca cca att gaa ata tgt aaa tta tat aat Asn Thr Cys Leu Thr Asn Ser Pro Ile Glu Ile Cys Lys Leu Tyr Asn 245 250 255	768
tat ata aaa aat gct cct tct ata tat aat tat aat ttt ata cct gat Tyr Ile Lys Asn Ala Pro Ser Ile Tyr Asn Tyr Asn Phe Ile Pro Asp 260 265 270	816
cat gat aaa tta att aat tat ttt gta act tat tta aaa tct aaa aat His Asp Lys Leu Ile Asn Tyr Phe Val Thr Tyr Leu Lys Ser Lys Asn	864

275	280	285	
ata aat tta aat gat aaa tta gtt ttt tgt aaa taa			900
Ile Asn Leu Asn Asp Lys Leu Val Phe Cys Lys			
290	295		
4110	58		
4111	1599		
4112	DNA		
4113	Amsacta moorei entomopoxvirus		
4120			
4121	exon		
4122	(1)..(1599)		
4400	58		
atg aat cat att aaa aaa att tta aaa ata aaa agt gat aaa gat ata			43
Met Asn His Ile Lys Lys Ile Leu Lys Ile Lys Ser Asp Lys Asp Ile			
1 5 10 15			
tta aat tac ata gat gca tta aat tat aat gat tta gaa aat ata ata			96
Leu Asn Tyr Ile Asp Ala Leu Asn Tyr Asn Asp Leu Glu Asn Ile Ile			
20 25 30			
cag aca tta gat aat agt tat tat gat aaa gaa gct tta att agt gat			144
Gln Thr Leu Asp Asn Ser Tyr Tyr Asp Lys Glu Ala Leu Ile Ser Asp			
35 40 45			
aaa aaa tat gat tta ata aga aat ttt ata aat aat aag tat cct aat			192
Lys Lys Tyr Asp Leu Ile Arg Asn Phe Ile Asn Asn Lys Tyr Pro Asn			
50 55 60			
gaa tct ttg tgt aaa aaa ata ggt tat act ccg gaa gat aaa gta cga			240
Glu Ser Leu Cys Lys Lys Ile Gly Tyr Thr Pro Glu Asp Lys Val Arg			
65 70 75 80			
tta aag tat ttt atg ggt agt gaa aat aaa act tat aaa tca gat aat			288
Leu Lys Tyr Phe Met Gly Ser Glu Asn Lys Thr Tyr Lys Ser Asp Asn			
85 90 95			
aaa tta tta agt tgg ata aac gaa tat cat act aat ata tta gta tta			336
Lys Leu Leu Ser Trp Ile Asn Glu Tyr His Thr Asn Ile Leu Val Leu			
100 105 110			
tct gca aaa gca gac gga ata tca gta tta tgg gat ata aaa aat aat			384
Ser Ala Lys Ala Asp Gly Ile Ser Val Leu Trp Asp Ile Lys Asn Asn			
115 120 125			
aaa ata tat agt aga ggt gat ggt aaa tat gga aaa gat ata aca cat			432
Lys Ile Tyr Ser Arg Gly Asp Gly Lys Tyr Gly Lys Asp Ile Thr His			
130 135 140			
ttt att aat tat ttt aat ttt tca gat gat aaa aat ata aat aac aat			480
Phe Ile Asn Tyr Phe Asn Phe Ser Asp Asp Lys Asn Ile Asn Asn Asn			
145 150 155 160			
gat ata ttt aaa aat aat ata aat ttt gtt aga ggt gaa tta gtt ata			528

Asp	Ile	Phe	Lys	Asn	Asn	Ile	Asn	Phe	Val	Arg	Gly	Glu	Leu	Val	Ile		
				165					170					175			
gat	aaa	cct	gaa	aat	aga	aat	ata	gta	gca	ggg	caa	ata	aat	aga	aat	576	
Asp	Lys	Pro	Glu	Asn	Arg	Asn	Ile	Val	Ala	Gly	Gln	Ile	Asn	Arg	Asn		
			180					185					190				
gaa	att	gat	aaa	gaa	acc	gca	tta	aaa	ata	tat	ttt	gta	gca	tac	gaa	624	
Glu	Ile	Asp	Lys	Glu	Thr	Ala	Leu	Lys	Ile	Tyr	Phe	Val	Ala	Tyr	Glu		
		195					200					205					
ata	tta	gaa	cca	aga	atg	aca	caa	ctc	gaa	caa	ttt	cac	aaa	ott	aca	672	
Ile	Leu	Glu	Pro	Arg	Met	Thr	Gln	Leu	Glu	Gln	Phe	His	Lys	Leu	Thr		
	210					215					220						
gag	aat	agt	ata	aga	act	gtt	aaa	tat	gat	tct	gtt	gat	tat	aat	att	720	
Glu	Asn	Ser	Ile	Arg	Thr	Val	Lys	Tyr	Asp	Ser	Val	Asp	Tyr	Asn	Ile		
225					230				235					240			
tca	tac	gaa	caa	tta	agt	gaa	ata	tat	aat	aat	tat	acg	caa	gaa	tta	768	
Ser	Tyr	Glu	Gln	Leu	Ser	Glu	Ile	Tyr	Asn	Asn	Tyr	Thr	Gln	Glu	Leu		
			245						250					255			
tcg	tat	tac	ata	gat	ggg	att	ata	ata	aga	aat	aat	aat	tta	aat	cca	816	
Ser	Tyr	Tyr	Ile	Asp	Gly	Ile	Ile	Ile	Arg	Asn	Asn	Asn	Leu	Asn	Pro		
			260					265					270				
gtt	att	aaa	tct	ggg	aat	cca	cct	tgg	tca	ata	tgt	ttt	aag	gaa	aca	864	
Val	Ile	Lys	Ser	Gly	Asn	Pro	Pro	Trp	Ser	Ile	Cys	Phe	Lys	Glu	Thr		
		275				280						285					
gat	aaa	ata	tat	att	act	act	gtt	aaa	gaa	atc	aaa	tgg	gat	ata	tca	912	
Asp	Lys	Ile	Tyr	Ile	Thr	Thr	Val	Lys	Glu	Ile	Lys	Trp	Asp	Ile	Ser		
	290					295					300						
aaa	aaa	aat	ata	tat	ata	cct	aaa	gca	ata	tta	gag	cct	ata	att	ata	960	
Lys	Lys	Asn	Ile	Tyr	Ile	Pro	Lys	Ala	Ile	Leu	Glu	Pro	Ile	Ile	Ile		
305					310					315					320		
gat	aat	tcg	act	att	aat	gct	gtt	gct	tgt	cac	aat	gct	aaa	tat	gta	1008	
Asp	Asn	Ser	Thr	Ile	Asn	Ala	Val	Ala	Cys	His	Asn	Ala	Lys	Tyr	Val		
			325						330					335			
att	gat	aaa	aaa	att	aac	act	ggg	tca	ata	gta	gaa	ata	gta	aag	aaa	1056	
Ile	Asp	Lys	Lys	Ile	Asn	Thr	Gly	Ser	Ile	Val	Glu	Ile	Val	Lys	Lys		
			340				345						350				
ggg	gga	gtt	ata	cgg	ata	att	aat	aat	gta	ata	aaa	gaa	tca	gat	ata	1104	
Gly	Gly	Val	Ile	Pro	Ile	Ile	Asn	Asn	Val	Ile	Lys	Glu	Ser	Asp	Ile		
		355					360					365					
gaa	att	ata	tta	ccc	gat	ggg	att	tta	tct	ggg	gta	aat	att	ata	ttt	1152	
Glu	Ile	Ile	Leu	Pro	Asp	Gly	Ile	Leu	Ser	Gly	Val	Asn	Ile	Ile	Phe		
		370				375					380						
act	ggg	gtt	aac	aaa	gaa	agt	gaa	att	aaa	aga	ata	tta	tac	ttt	ttt	1200	
Thr	Gly	Val	Asn	Lys	Glu	Ser	Glu	Ile	Lys	Arg	Ile	Leu	Tyr	Phe	Phe		
385					390				395						400		

aaa tca ttt gga tat aaa aat att aat aaa aca ata att gat aaa tta 1248
 Lys Ser Phe Gly Tyr Lys Asn Ile Asn Lys Thr Ile Ile Asp Lys Leu 415
 405 410

tat atg tta gga tat gta aat ata tta aaa tat tta gaa aaa gat att 1296
 Tyr Met Leu Gly Tyr Val Asn Ile Leu Lys Tyr Leu Glu Lys Asp Ile 430
 420 425

aat ata gaa gaa tat aat aat aaa aaa aat tat att aaa tta ttg gaa 1344
 Asn Ile Glu Glu Tyr Asn Asn Lys Lys Thr Tyr Ile Lys Leu Leu Glu 445
 435 440

gta att aaa gat ata aaa agt aaa aat tat aat atc gta gac ata tta 1392
 Val Ile Lys Asp Ile Lys Ser Lys Asn Tyr Asn Ile Val Asp Ile Leu 460
 450 455

aca gca tta tct cta gat agt ata tca aaa tca aga gtt tgt got att 1440
 Thr Ala Leu Ser Leu Asp Ser Ile Ser Lys Ser Arg Val Cys Ala Ile 480
 465 470

tat aat gag ttt cca gat ttt ttg aaa gat aaa aat gaa aaa gat tat 1488
 Tyr Asn Glu Phe Pro Asp Phe Leu Lys Asp Lys Asn Glu Lys Asp Tyr 495
 485 490

agt tca ata aac ggt att gga aaa tct ata tca aaa aaa att aat gat 1536
 Ser Ser Ile Asn Gly Ile Gly Lys Ser Ile Ser Lys Lys Ile Asn Asp 510
 500 505

aat att ata aat aat tac gaa tat ata ata aat att tta aac got tta 1584
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aat ata aag tat taa 1599
 Asn Ile Lys Tyr 530

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 <211> 687
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
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aaa aat aaa gat ata tat tca tgt tgt gat tgc tca aat tgt tat aca 96
 Lys Asn Lys Asp Ile Tyr Ser Cys Cys Asp Cys Ser Asn Cys Tyr Thr 30
 20 25

aca tgg tca aaa aga ata aca aca ata agt agt got tca aac aat aaa 144
 Thr Ser Ser Lys Arg Ile Thr Thr Ile Ser Ser Ala Ser Asn Asn Lys 45
 35 40

act ata cat tgt aat aat gtt tta aaa gaa ata tca aat acc agt att Thr Ile His Cys Asn Asn Val Leu Lys Glu Ile Ser Asn Thr Ser Ile 50 55 60	192
tca tat gat ata gta gat ggt ttt cta aaa cta atc aat gat aat aat Ser Tyr Asp Ile Val Asp Gly Phe Leu Lys Leu Ile Asn Asp Asn Asn 65 70 75 80	240
tta aat aca aaa agt ata aca act ggc tta ggt tct gaa tat tta aaa Leu Asn Thr Lys Ser Ile Thr Thr Ala Leu Gly Ser Glu Tyr Leu Lys 85 90 95	288
tca aaa ggt ata aaa aat tat aga act acg cat aaa tta att aat atg Ser Lys Gly Ile Lys Asn Tyr Arg Thr Thr His Lys Leu Ile Asn Met 100 105 110	336
tct cta tgg gat ggt aat aat tgt ata tta act aaa gac gat atc ttt Ser Leu Ser Asp Gly Asn Asn Cys Ile Leu Thr Lys Asp Asp Ile Phe 115 120 125	384
aga att aat ata att ttt gag gat ttt aca caa ttt ata tat aaa aat Arg Ile Asn Ile Ile Phe Glu Asp Phe Thr Gln Phe Ile Tyr Lys Asn 130 135 140	432
aat tat aca aaa act ata tct tac gaa ttc tgt tta gat aga ata ttt Asn Tyr Thr Lys Thr Ile Ser Tyr Glu Phe Cys Leu Asp Arg Ile Phe 145 150 155 160	480
gat att ctt aat ata aat tat gta ata aat ttc aat tat agc aaa cta Asp Ile Leu Asn Ile Asn Tyr Val Ile Asn Phe Asn Tyr Ser Lys Leu 165 170 175	528
aat aaa aga gac gat aaa cca gaa ata tgg aat aaa tat ata att gaa Asn Lys Arg Asp Asp Lys Pro Glu Ile Trp Asn Lys Tyr Ile Ile Glu 180 185 190	576
tta tat aat aaa tca ttg att aaa tct aat aat aaa ttt ata ttt aga Leu Tyr Asn Lys Ser Leu Ile Lys Ser Asn Asn Lys Phe Ile Phe Arg 195 200 205	624
cca aat aat att att ttt aat gaa tat ata aaa aat aat ata tgt ttg Pro Asn Asn Ile Ile Phe Asn Glu Tyr Ile Lys Asn Asn Ile Cys Leu 210 215 220	672
cgt aat att att taa Arg Asn Ile Ile 225	687

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att cca ata gtt att gat tct att gga aat gat aac gaa aat agt gta	96
Ile Pro Ile Val Ile Asp Ser Ile Gly Asn Asp Asn Glu Asn Ser Val	
20 25 30	
aaa agt cct aaa tta ggc gga act aaa ttc aat gtg tgt tog aca tgc	144
Lys Ser Pro Lys Leu Gly Gly Thr Lys Phe Asn Val Cys Ser Thr Cys	
35 40 45	
aat tta aca aga gaa aat ggc gac atg ggt cat cca gga aga act cct	192
Asn Leu Thr Arg Glu Asn Gly Asp Met Gly His Pro Gly Arg Thr Pro	
50 55 60	
tta aga gat atg tgt att gta aaa tct ggt tgt att aaa aat gtt ttg	240
Leu Arg Asp Met Cys Ile Val Lys Ser Gly Cys Ile Lys Asn Val Leu	
65 70 75 80	
gat aca cta aat aca tta aaa tta tgt aat agt tgt ttt atg ata aaa	288
Asp Thr Leu Asn Thr Leu Lys Leu Cys Asn Ser Cys Phe Met Ile Lys	
85 90 95	
aat aat aca ata ttt tca gaa ata att gaa aaa tat aat agc gaa tat	336
Asn Asn Thr Ile Phe Ser Glu Ile Ile Glu Lys Tyr Asn Ser Glu Tyr	
100 105 110	
aat att aat tta aaa aaa gaa ata tta tca tta tta aaa aac aat cgc	384
Asn Ile Asn Leu Lys Lys Glu Ile Leu Ser Leu Leu Lys Asn Asn Arg	
115 120 125	
caa ggt ggg gta aaa tgt aat aat gaa aat tgt caa aat ata aca gga	432
Gln Gly Gly Val Lys Cys Asn Asn Glu Asn Cys Gln Asn Ile Thr Gly	
130 135 140	
aca tat aaa tat aat caa aaa aaa tca tat ttt tac gta aaa aaa caa	480
Thr Tyr Lys Tyr Asn Gln Lys Lys Ser Tyr Phe Tyr Val Lys Lys Gln	
145 150 155 160	
aaa gat gaa atc att ctt aat aaa aca gtt tat act atg tta ctt gga	528
Lys Asp Glu Ile Ile Leu Asn Lys Thr Val Tyr Thr Met Leu Leu Gly	
165 170 175	
att cct gat ata att tat aaa tgt gtt act gta cca tac gca gat tct	576
Ile Pro Asp Ile Ile Tyr Lys Cys Val Thr Val Pro Tyr Ala Asp Ser	
180 185 190	
caa tta caa cct tat aaa gca ttt tac gct aat aat att ata att cct	624
Gln Leu Gln Pro Tyr Lys Ala Phe Tyr Ala Asn Asn Ile Ile Ile Pro	
195 200 205	
gta tta cca tct aga cct cca aat tat ttt gat aat aaa gaa tct cat	672
Val Leu Pro Ser Arg Pro Pro Asn Tyr Phe Asp Asn Lys Glu Ser His	
210 215 220	
gtt atg aca aca aaa ttg ggt caa tta gtt ggc aca tca caa aaa tct	720

Val	Met	Thr	Thr	Lys	Leu	Gly	Gln	Leu	Val	Gly	Thr	Ser	Gln	Lys	Ser		
225					230					235					240		
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Arg	Asp	Glu	Ser	Glu	Val	Gln	Lys	Ile	Tyr	Asn	Asp	Ile	Asp	Asn	Val		
				245					250					255			
aaa	cca	aat	tct	cca	tat	aaa	act	agt	aac	atg	tta	gtt	acg	tta	aat		816
Lys	Pro	Asn	Ser	Pro	Tyr	Lys	Thr	Ser	Asn	Met	Leu	Val	Thr	Leu	Asn		
				260				265					270				
ata	caa	gtt	ggg	ggg	aac	aaa	aaa	gga	agt	ata	gtt	aga	tct	aat	ata		864
Ile	Gln	Val	Gly	Gly	Asn	Lys	Lys	Gly	Ser	Ile	Val	Arg	Ser	Asn	Ile		
		275					280					285					
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Met	Ala	Arg	Arg	Ala	Asp	Asn	Thr	Ala	Arg	Cys	Val	Ala	Gly	Pro	Thr		
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Met	Asp	Lys	Ile	Gly	Tyr	Ile	Tyr	Ile	Pro	Lys	Ile	Val	Ala	Lys	Thr		
305					310					315					320		
tta	aca	tca	tca	ata	tat	tat	aat	aga	ttt	act	gaa	aat	atg	att	aaa		1008
Leu	Thr	Ser	Ser	Ile	Tyr	Tyr	Asn	Arg	Phe	Thr	Glu	Asn	Met	Ile	Lys		
				325				330						335			
gat	atg	tta	gtt	aat	gat	aat	aac	aaa	att	aaa	tat	ata	tta	tta	tat		1056
Asp	Met	Leu	Val	Asn	Asp	Asn	Asn	Lys	Ile	Lys	Tyr	Ile	Leu	Leu	Tyr		
				340				345					350				
aga	tat	gat	caa	tta	aaa	ccc	aca	aca	tta	tta	aaa	ata	aaa	cca	caa		1104
Arg	Tyr	Asp	Gln	Leu	Lys	Pro	Thr	Thr	Leu	Leu	Lys	Ile	Lys	Pro	Gln		
		355					360					365					
tct	aga	ctc	aat	aat	tta	tta	aaa	atg	aaa	tat	gga	gat	aga	ata	gaa		1152
Ser	Arg	Leu	Asn	Asn	Leu	Leu	Lys	Met	Lys	Tyr	Gly	Asp	Arg	Ile	Glu		
	370					375					380						
gtt	gaa	tta	gaa	gat	aat	gat	gta	ata	tta	ttt	agt	aga	caa	cca	tct		1200
Val	Glu	Leu	Glu	Asp	Asn	Asp	Val	Ile	Leu	Phe	Ser	Arg	Gln	Pro	Ser		
385					390					395					400		
tta	cat	aaa	ttt	aat	att	cag	gca	ggg	ata	tgt	aaa	ata	tgg	gat	aat		1248
Leu	His	Lys	Phe	Asn	Ile	Gln	Ala	Gly	Ile	Cys	Lys	Ile	Trp	Asp	Asn		
				405				410						415			
aat	aca	ata	gca	aca	cct	acg	ccg	ata	gca	aat	tct	atg	aat	tta	gat		1296
Asn	Thr	Ile	Ala	Thr	Pro	Thr	Pro	Ile	Ala	Asn	Ser	Met	Asn	Leu	Asp		
				420				425					430				
tat	gat	ggg	gat	gaa	atg	aat	gta	tat	aaa	tta	aaa	tca	tct	gtg	tca		1344
Tyr	Asp	Gly	Asp	Glu	Met	Asn	Val	Tyr	Lys	Leu	Lys	Ser	Ser	Val	Ser		
		435					440					445					
gta	gaa	tca	tta	ttt	act	atg	tta	tct	gtt	aat	atg	att	aaa	aat	aat		1392
Val	Glu	Ser	Leu	Phe	Thr	Met	Leu	Ser	Val	Asn	Met	Ile	Lys	Asn	Asn		
	450					455					460						

tat aat ttt tgg cca ata ttt ggg tta att caa gat caa ata ata tca	1440
Tyr Asn Phe Ser Pro Ile Phe Gly Leu Ile Gln Asp Gln Ile Ile Ser	
465 470 475 480	
gta cat atg ata tat aat att aaa gaa ttt tct cta caa gat gtt att	1488
Val His Met Ile Tyr Asn Ile Lys Glu Phe Ser Leu Gln Asp Val Ile	
485 490 495	
tat att tta gga gaa tat agt tat tat ata aga gat ata aat aaa aaa	1536
Tyr Ile Leu Gly Glu Tyr Ser Tyr Tyr Ile Arg Asp Ile Asn Lys Lys	
500 505 510	
aca tat tct gga aaa gaa tta tta tca tta tta ttt cca gat aat ctt	1584
Thr Tyr Ser Gly Lys Glu Leu Leu Ser Leu Leu Phe Pro Asp Asn Leu	
515 520 525	
aca tat gaa ggt atg ttt gat aat ggt aaa att aca tta tct aat ata	1632
Thr Tyr Glu Gly Met Phe Asp Asn Gly Lys Ile Thr Leu Ser Asn Ile	
530 535 540	
tca tct aaa caa gtt gta gct cag tca tat gaa tca ttt tca aat att	1680
Ser Ser Lys Gln Val Val Ala Gln Ser Tyr Glu Ser Phe Ser Asn Ile	
545 550 555 560	
cta tct caa tta aaa aat aat att tat gct gtg tat ttt ata gat gta	1728
Leu Ser Gln Leu Lys Asn Asn Ile Tyr Ala Val Tyr Phe Ile Asp Val	
565 570 575	
ata tta tat gta gct aga aat ttt ata aat ttg tat agt ttt agc gtt	1776
Ile Leu Tyr Val Ala Arg Asn Phe Ile Asn Leu Tyr Ser Phe Ser Val	
580 585 590	
tgg tta aaa gat att att cca gat ata tat ttt att gac gat gtt caa	1824
Ser Leu Lys Asp Ile Ile Pro Asp Ile Tyr Phe Ile Asp Asp Val Gln	
595 600 605	
gaa tac att aat aat tgt tgt aaa gtt ata caa tat gtt gcg cta caa	1872
Glu Tyr Ile Asn Asn Cys Cys Lys Val Ile Gln Tyr Val Ala Leu Gln	
610 615 620	
tat tat att aaa aaa gat cat ata ata aaa tta act tat gat gaa atg	1920
Tyr Tyr Ile Lys Lys Asp His Ile Ile Lys Leu Thr Tyr Asp Glu Met	
625 630 635 640	
gaa aat ata aga ata caa aac ggt aat aat ata ata tct aat gtt aaa	1968
Glu Asn Ile Arg Ile Gln Asn Gly Asn Asn Ile Ile Ser Asn Val Lys	
645 650 655	
aat aaa ata aat aat cta ttt aaa gat gag aaa tta aat act ata atg	2016
Asn Lys Ile Asn Asn Leu Phe Lys Asp Glu Lys Leu Asn Thr Ile Met	
660 665 670	
atg atg aaa aat tca ggc tat aaa ata aca tta gat gaa tta gta aca	2064
Met Met Lys Asn Ser Gly Tyr Lys Ile Thr Leu Asp Glu Leu Val Thr	
675 680 685	
gtg tgg ggt tgt act gga caa caa gga att gat tca gat gat ata ccg	2112
Val Leu Gly Cys Thr Gly Gln Gln Gly Ile Asp Ser Asp Asp Ile Pro	

690	695	700	
aaa ccc gga att atg gga aga gta ttt gat tca asa tta cct gga agt Lys Pro Gly Ile Met Gly Arg Val Phe Asp Ser Thr Leu Pro Gly Ser 705 710 715 720			1160
tta gac ata gaa tca tta gga tat gta aaa tca tca act ata aaa ggt Leu Asp Ile Glu Ser Leu Gly Tyr Val Lys Ser Ser Thr Ile Lys Gly 725 730 735			1208
tta aaa ttc gaa gaa ttg gca ttt cat aca aaa tac aat tca att aaa Leu Lys Phe Glu Glu Leu Ala Phe His Thr Lys Tyr Asn Ser Ile Lys 740 745 750			1256
aaa ata tta aaa ata aca tgc gag aca tca tgc gca ggt agt att ggt Lys Ile Leu Lys Ile Thr Cys Glu Thr Ser Ser Ala Gly Ser Ile Gly 755 760 765			1304
aga aaa tta gtt aaa ttt atg gaa ggt gtt aaa gta gat cat ttg ggt Arg Lys Leu Val Lys Phe Met Glu Gly Val Lys Val Asp His Leu Gly 770 775 780			1352
aga tcc gta tta aat aat gat att ata tgg tat aat aca aat cat att Arg Ser Val Leu Asn Asn Asp Ile Ile Trp Tyr Asn Thr Asn His Ile 785 790 795 800			1400
aaa atg aca ggt ggt gat ata tct aaa gta gaa ata tta act cct agt Lys Met Thr Gly Gly Asp Ile Ser Lys Val Glu Ile Leu Thr Pro Ser 805 810 815			1448
tta gaa atg gta aat tac aca ctt ata aaa gaa ata tat aac gaa aat Leu Glu Met Val Asn Tyr Thr Leu Ile Lys Glu Ile Tyr Asn Glu Asn 820 825 830			1496
aaa aaa tat tta tta act aat ttt aat act gaa ata aat aaa gaa ttt Lys Lys Tyr Leu Leu Thr Asn Phe Asn Thr Glu Ile Asn Lys Glu Phe 835 840 845			1544
att ttt cca att aat ata aaa tta gag att caa tca ttt tat aat aaa Ile Phe Pro Ile Asn Ile Lys Leu Glu Ile Gln Ser Phe Tyr Asn Lys 850 855 860			1592
aaa tca act cct ata tct gat ata gat gca tta aaa tta att gat gaa Lys Ser Thr Pro Ile Ser Asp Ile Asp Ala Leu Lys Leu Ile Asp Glu 865 870 875 880			1640
ttt ata gaa tat gtc tat att aat ata tat ttt tac aac att aca ata Phe Ile Glu Tyr Val Tyr Ile Asn Ile Tyr Phe Tyr Asn Ile Thr Ile 885 890 895			1688
gat tgg ttt aaa tat att tta tat aca tat cta gat aga aat aca gta Asp Trp Phe Lys Tyr Ile Leu Tyr Thr Tyr Leu Asp Arg Asn Thr Val 900 905 910			1736
gaa aaa tat aat aaa aaa tat tct aaa gaa tta tta aat tat ata ata Glu Lys Tyr Asn Lys Lys Tyr Ser Lys Glu Leu Leu Asn Tyr Ile Ile 915 920 925			1784

aat aaa att aaa tta aaa tta cta aat tca tta aat cca ggt tat cct Asn Lys Ile Lys Leu Lys Leu Leu Asn Ser Leu Asn Pro Gly Tyr Pro 930 935 940	2831
att gga tta gaa tac gca aat aat att caa gaa aaa ttt aca caa caa Ile Gly Leu Glu Tyr Ala Asn Asn Ile Gln Glu Lys Phe Thr Gln Gln 945 950 955 960	2880
tca tta tog tot ttt cac act act aaa aaa tca gga aca gca tca acc Ser Leu Ser Ser Phe His Thr Thr Lys Lys Ser Gly Thr Ala Ser Thr 965 970 975	2928
caa tta gga ttt tog gat ttt aaa gat act gta gaa ttg agt aaa aaa Gln Leu Gly Phe Ser Asp Phe Lys Asp Thr Val Glu Leu Ser Lys Lys 980 985 990	2976
aat aaa aga gat att gta att gct ttt aca aca cac aga tat aaa tta Asn Lys Arg Asp Ile Val Ile Ala Phe Thr Thr His Arg Tyr Lys Leu 995 1000 1005	3024
gaa gat att aag aag caa atg gaa tac ttg tgt tta aag aat ttt Glu Asp Ile Lys Lys Gln Met Glu Tyr Leu Cys Leu Lys Asn Phe 1010 1015 1020	3069
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ata agt gta agt ata aaa aaa tac tat att aat gac aaa ata tot Ile Ser Val Ser Ile Lys Lys Tyr Tyr Ile Asn Asp Lys Ile Ser 1040 1045 1050	3150
tta tat cat tac tta caa atg tat ata gaa tat tta gaa aat aat Leu Tyr His Tyr Leu Gln Met Tyr Ile Glu Tyr Leu Glu Asn Asn 1055 1060 1065	3204
aaa att att aaa ggc tat tgg ata act atg aaa tta aaa gat aat Lys Ile Ile Lys Gly Tyr Trp Ile Thr Met Lys Leu Lys Asp Asn 1070 1075 1080	3249
gat ata aca gtg ata ttt gga gtt aaa att aaa act cct tat aat Asp Ile Thr Val Ile Phe Gly Val Lys Ile Lys Thr Pro Tyr Asn 1085 1090 1095	3294
ata aat aaa ata tat atg ata aaa agt ata cca gtt tog gtt tot Ile Asn Lys Ile Tyr Met Ile Lys Ser Ile Pro Val Ser Val Ser 1100 1105 1110	3339
aaa ggt aaa ata agt aac ata aat tta gag ata gaa gat gtt aaa Lys Gly Lys Ile Ser Asn Ile Asn Leu Glu Ile Glu Asp Val Lys 1115 1120 1125	3384
atg tat aat aat aat ttg gaa gaa caa aat ggt tat aga tta aaa Met Tyr Asn Asn Asn Leu Glu Glu Gln Asn Gly Tyr Arg Leu Lys 1130 1135 1140	3429
ttc tat att gat agt gtc aca gat ttt att aat ttt gat acg aga Phe Tyr Ile Asp Ser Val Thr Asp Phe Ile Asn Phe Asp Thr Arg	3474

1145	1150	1155	
gat gtt tat ctg gaa tta ggt ccg tgg ttt acg tat aat tog ttt			3519
Asp Val Tyr Leu Glu Leu Gly Pro Trp Phe Thr Tyr Asn Ser Phe			
1160	1165	1170	
ggc ata caa ttt gct gaa tat tct att aga cgt aga tta gtt tog			3564
Gly Ile Gln Phe Ala Glu Tyr Ser Ile Arg Arg Arg Leu Val Ser			
1175	1180	1185	
tct aca aaa gaa aaa agt atg gaa ata tgt tat ata ata tta tog			3609
Ser Thr Lys Glu Lys Ser Met Glu Ile Cys Tyr Ile Ile Leu Ser			
1190	1195	1200	
aaa ttg atg tgt tta tct tcc gaa atg tat aat ata aaa aga ata			3654
Lys Leu Met Cys Leu Ser Ser Glu Met Tyr Asn Ile Lys Arg Ile			
1205	1210	1215	
aga gag ggt aaa caa aat gtt ata aaa tca gca ata cat ggt agt			3699
Arg Glu Gly Lys Gln Asn Val Ile Lys Ser Ala Ile His Gly Ser			
1220	1225	1230	
tog gat gct ata aca aca gct gca tat aat aat ata ata gat cca			3744
Ser Asp Ala Ile Thr Thr Ala Ala Tyr Asn Asn Ile Ile Asp Pro			
1235	1240	1245	
aac aat gat ata tat tct caa ata tta tca agt caa att atg aaa			3789
Asn Asn Asp Ile Tyr Ser Gln Ile Leu Ser Ser Gln Ile Met Lys			
1250	1255	1260	
tta gga cat gga tat tat gat tgt tat tta aat tta aat aga tat			3834
Leu Gly His Gly Tyr Tyr Asp Cys Tyr Leu Asn Leu Asn Arg Tyr			
1265	1270	1275	
gat tct att aac ata aat tct gtc acc gaa caa gat ata aat ata			3879
Asp Ser Ile Asn Ile Asn Ser Val Thr Glu Gln Asp Ile Asn Ile			
1280	1285	1290	
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Thr Ser Glu Ile Ile Glu Asn Phe			
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1 5 10 15	

aga ata aca tca cca atc gat aat att aga tat att ttt gat ctt att	96
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Arg	Ile	Thr	Ser	Pro	Ile	Asp	Asn	Ile	Arg	Tyr	Ile	Phe	Asp	Leu	Ile		
			20					25					30				
aac	aca	agt	ggg	aat	ggg	gaa	att	acg	gca	gaa	gaa	tta	cta	aat	ttt		144
Asn	Thr	Ser	Gly	Asn	Gly	Glu	Ile	Thr	Ala	Glu	Glu	Leu	Leu	Asn	Phe		
		35					40					45					
tta	att	gtt	att	gat	cca	act	ata	aat	tta	tct	gat	gtt	ogt	gog	tta		192
Leu	Ile	Val	Ile	Asp	Pro	Thr	Ile	Asn	Leu	Ser	Asp	Val	Arg	Ala	Leu		
		50				55					60						
att	gac	aca	tat	gat	ttg	aat	aat	aac	aat	acg	tta	agt	ttt	gat	gaa		240
Ile	Ala	Thr	Tyr	Asp	Leu	Asn	Asn	Asn	Asn	Thr	Leu	Ser	Phe	Asp	Glu		
65					70				75						80		
ttt	gtt	cca	ata	ata	ggg	att	aat	ata	act	gat	gaa	aaa	tta	aga	gaa		288
Phe	Val	Pro	Ile	Ile	Gly	Ile	Asn	Ile	Thr	Asp	Glu	Lys	Leu	Arg	Glu		
			85					90						95			
gca	ttt	gat	tct	ata	aca	act	gat	ggg	gat	gtc	gat	ctt	gat	aaa	ttt		336
Ala	Phe	Asp	Ser	Ile	Thr	Thr	Asp	Gly	Asp	Val	Asp	Leu	Asp	Lys	Phe		
			100					105					110				
aga	aca	tat	tat	aat	tta	tta	caa	att	act	ccc	ata	tat	aga	cat	act		384
Arg	Thr	Tyr	Tyr	Asn	Leu	Leu	Gln	Ile	Thr	Pro	Ile	Tyr	Arg	His	Thr		
		115					120					125					
aac	gat	caa	tat	ata	gat	ata	ata	att	aga	atg	atc	gga	agt	agt	caa		432
Asn	Asp	Gln	Tyr	Ile	Asp	Ile	Ile	Ile	Arg	Met	Ile	Gly	Ser	Ser	Gln		
	130					135					140						
gaa	gaa	ttt	ata	gca	ttt	tgg	aat	tac	ata	aat	act	caa	gta	aat	gga		480
Glu	Glu	Phe	Ile	Ala	Phe	Trp	Asn	Tyr	Ile	Asn	Thr	Gln	Val	Asn	Gly		
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Val	Val	Thr	Glu	Ile	Ser	Ile	Gln	Leu	Glu	Ser	Lys	Gln	Ile	Asn	Asn		
		20					25					30					
aat	att	aga	caa	gaa	att	gta	tca	aat	ata	aaa	aat	aat	ata	ata	aat		144
Asn	Ile	Arg	Gln	Glu	Ile	Val	Ser	Asn	Ile	Lys	Asn	Asn	Ile	Ile	Asn		

35	40	45	
aaa act agc ggt gtt aat tat att tta tca gtt gat tat caa tca ata			192
Lys Thr Ser Gly Val Asn Tyr Ile Leu Ser Val Asp Tyr Gln Ser Ile			
50	55	60	
tta aat aat gaa tta cca tta tta aga tta aat aat gta tat aca caa			240
Leu Asn Asn Glu Leu Pro Leu Leu Arg Leu Asn Asn Val Tyr Thr Gln			
65	70	75	80
gaa tta gtt gtt aaa tta ccc gta aca tat cta tat ttt aca aaa aat			288
Glu Leu Val Val Lys Leu Pro Val Thr Tyr Leu Tyr Phe Thr Lys Asn			
85	90	95	
caa ata ata aaa ggt tat ttg aca att att gaa gga gat aat cca cat			336
Gln Ile Ile Lys Ala Tyr Leu Thr Ile Ile Glu Gly Asp Asn Pro His			
100	105	110	
gta gtt gca tat aac aaa tat ata tat tgt aat ata att tta gat cat			384
Val Val Ala Tyr Asn Lys Tyr Ile Tyr Cys Asn Ile Ile Leu Asp His			
115	120	125	
aat ttc act ata aat atg tca gaa aaa tta tta ata ttt aag aac aaa			432
Asn Phe Thr Ile Asn Met Ser Glu Lys Leu Leu Ile Phe Lys Asn Lys			
130	135	140	
gaa tat aaa aat aga gat gaa tgt tat gta aaa ata atc gat ata tat			480
Glu Tyr Lys Asn Arg Asp Glu Cys Tyr Val Lys Ile Ile Asp Ile Tyr			
145	150	155	160
agt tca gaa aaa aat aat aaa ata cca tgc aaa ggt att ttg caa gac			528
Ser Ser Glu Lys Asn Asn Lys Ile Pro Cys Lys Gly Ile Leu Gln Asp			
165	170	175	
gaa gaa ata taa			540
Glu Glu Ile			

<210> 63
 <211> 735
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
 <221> exon
 <222> (1)..(735)

<400> 63	
atg aat aac att tca tat aaa aat ttt atc gaa aat ata cca gaa aaa	48
Met Asn Asn Ile Ser Tyr Lys Asn Phe Ile Glu Asn Ile Pro Glu Lys	
1 5 10 15	
ttg tta gat gtg ata gat aaa aaa caa tta gaa tat got cat cat aaa	96
Trp Leu Asp Val Ile Asp Lys Lys Gln Leu Glu Tyr Ala His His Lys	
20 25 30	
tta aaa aat gaa tct att att aaa cca tct ata aat aat ata ttt aaa	144

Leu	Lys	Asn	Glu	Ser	Ile	Ile	Lys	Pro	Ser	Ile	Asn	Asn	Ile	Phe	Lys		
		35					40					45					
tgt	ttt	aaa	tat	ttt	aat	ccc	gat	caa	gtt	aaa	gta	att	att	tta	ggt		192
Cys	Phe	Lys	Tyr	Phe	Asn	Pro	Asp	Gln	Val	Lys	Val	Ile	Ile	Leu	Gly		
	50					55					60						
cag	gat	cct	tat	cct	act	gtt	gga	atg	gct	gat	ggg	tta	gca	ttt	tcg		240
Gln	Asp	Pro	Tyr	Pro	Thr	Val	Gly	Met	Ala	Asp	Gly	Leu	Ala	Phe	Ser		
65					70				75					80			
tgt	tct	aat	aat	agt	aat	tat	att	cct	aaa	tct	tta	caa	aac	ata	ata		288
Cys	Ser	Asn	Asn	Ser	Asn	Tyr	Ile	Pro	Lys	Ser	Leu	Gln	Asn	Ile	Ile		
			85						90					95			
aaa	gaa	ata	tta	aaa	caa	aat	aaa	aaa	tat	gat	atg	atg	aaa	aat	att		336
Lys	Glu	Ile	Leu	Lys	Gln	Asn	Lys	Lys	Tyr	Asp	Met	Met	Lys	Asn	Ile		
		100					105						110				
aat	atg	aat	tat	att	aat	gta	aat	cta	gaa	ttt	tta	ggg	aaa	caa	caa		384
Asn	Met	Asn	Tyr	Ile	Asn	Val	Asn	Leu	Glu	Phe	Leu	Ala	Lys	Gln	Gln		
		115					120					125					
att	tta	tta	ttt	aat	acg	ata	ttg	aca	gtt	ggt	gat	gag	cca	atg	tca		432
Ile	Leu	Leu	Phe	Asn	Thr	Ile	Leu	Thr	Val	Gly	Asp	Glu	Pro	Met	Ser		
	130					135					140						
cac	aaa	cat	att	tgg	gaa	tca	ttt	tca	aat	tct	att	att	aaa	aaa	tta		480
His	Lys	His	Ile	Trp	Glu	Ser	Phe	Ser	Asn	Ser	Ile	Ile	Lys	Lys	Leu		
145					150					155					160		
tca	tta	att	aat	aat	aat	ata	gta	ttt	ata	tta	ttt	ggg	gca	aaa	gct		528
Ser	Leu	Ile	Asn	Asn	Asn	Ile	Val	Phe	Ile	Leu	Phe	Gly	Ala	Lys	Ala		
			165						170					175			
cat	aat	aaa	att	tat	ttt	atc	gaa	aat	aaa	aaa	aat	cat	tgt	att	atc		576
His	Asn	Lys	Ile	Tyr	Phe	Ile	Glu	Asn	Lys	Lys	Asn	His	Cys	Ile	Ile		
			180					185					190				
aaa	aca	agt	cat	cct	tct	aat	tta	tct	tgt	tat	aaa	gat	gga	tat	gat		624
Lys	Thr	Ser	His	Pro	Ser	Asn	Leu	Ser	Cys	Tyr	Lys	Asp	Gly	Tyr	Asp		
		195					200					205					
aaa	tat	gtt	cct	ttt	aat	aat	tca	gat	tgt	ttt	aat	att	tgt	aac	gaa		672
Lys	Tyr	Val	Pro	Phe	Asn	Asn	Ser	Asp	Cys	Phe	Asn	Ile	Cys	Asn	Glu		
	210					215					220						
tat	ctt	ata	aaa	aat	aat	ata	aaa	ccg	ata	gat	tgg	tta	tct	gaa	tta		720
Tyr	Leu	Ile	Lys	Asn	Asn	Ile	Lys	Pro	Ile	Asp	Trp	Leu	Ser	Glu	Leu		
225					230					235					240		
ata	aaa	aat	aat	taa													735
Ile	Lys	Asn	Asn														

<210> 64
<211> 714

0212 DNA

0213 Amsacta moorei entomopoxvirus

0220

0221 exon

0222 (1)..(714)

0400 64

atg gaa aat tat gat ttt aaa att gat aaa tat act cat ata gga aat	48
Met Glu Asn Tyr Asp Phe Lys Ile Asp Lys Tyr Thr His Ile Gly Asn	
1 5 10 15	

agt agt tat aac gat gat tat ata ttt ata aaa aaa aat ata aat tat	96
Arg Ser Tyr Asn Asp Asp Tyr Ile Phe Ile Lys Lys Asn Ile Asn Tyr	
20 25 30	

atc atg ttt gta ata att gac gga cac gga ggt tca gaa tgt tot aaa	144
Ile Met Phe Val Ile Ile Asp Gly His Gly Gly Ser Glu Cys Ser Lys	
35 40 45	

ata ttt ata aaa tta ttt aat aaa aat ttt aat cca aaa cca tat gta	192
Ile Phe Ile Lys Leu Phe Asn Lys Asn Phe Asn Pro Lys Pro Tyr Val	
50 55 60	

gat att gga tta tat ata aaa aat tta ttt ata aaa att aat aaa aca	240
Asp Ile Gly Leu Tyr Ile Lys Asn Leu Phe Ile Lys Ile Asn Lys Thr	
65 70 75 80	

att tta aat aat aaa att aca tot gga gca tgt gta tot ggt att tat	288
Ile Leu Asn Asn Lys Ile Thr Ser Gly Ala Cys Val Ser Gly Ile Tyr	
85 90 95	

att gat aat aat aaa aca ata ata ttt caa tta gga gat aca aaa ata	336
Ile Asp Asn Asn Lys Thr Ile Ile Phe Gln Leu Gly Asp Thr Lys Ile	
100 105 110	

tat tta tat aat aac aat aaa tta aca tat gaa aca ata caa cat gat	384
Tyr Leu Tyr Asn Asn Asn Lys Leu Thr Tyr Glu Thr Ile Gln His Asp	
115 120 125	

ata tca aat aaa tac gaa aga aat aaa ttt ttt aaa gat ttt att tat	432
Ile Ser Asn Lys Tyr Glu Arg Asn Lys Phe Phe Lys Asp Phe Ile Tyr	
130 135 140	

tca gat att cca aga tta ttt gga aag tta aca gtt aca agg gca ata	480
Ser Asp Ile Pro Arg Leu Phe Gly Lys Leu Thr Val Thr Arg Ala Ile	
145 150 155 160	

gga aat ttt gat tta aat ata aaa tat ata cct aaa ata gat tat att	528
Gly Asn Phe Asp Leu Asn Ile Lys Tyr Ile Pro Lys Ile Asp Tyr Ile	
165 170 175	

tct aat aat agt tat aat aaa att att tta tgc aca gat gga gtg tat	576
Ser Asn Asn Ser Tyr Asn Lys Ile Ile Leu Cys Thr Asp Gly Val Tyr	
180 185 190	

aaa aaa ata aat ata aat atc gat gat act gct aaa gaa aat att aat	624
Lys Lys Ile Asn Ile Asn Ile Asp Asp Thr Ala Lys Glu Asn Ile Asn	

195	200	205	
aaa tgt tta aaa aat cct cct aat gat aat atg act atg atg att ata			671
Lys Cys Leu Lys Asn Pro Pro Asn Asp Asn Met Thr Met Met Ile Ile			
210	215	220	
aat tta tca aat ata tta cat tta ata aat aaa aac ata taa			714
Asn Leu Ser Asn Ile Leu His Leu Ile Asn Lys Asn Ile			
225	230	235	
<210> 65			
<211> 474			
<212> DNA			
<213> Amsacta moorei entomopoxvirus			
<220>			
<221> exon			
<222> (1)..(474)			
<400> 65			
atg tta cct tat aaa tgg aat aat tat ttt gca cac gga act ata ata			48
Met Leu Pro Tyr Lys Trp Asn Asn Tyr Phe Ala His Gly Thr Ile Ile			
1	5	10	15
aag tgt ata aat aca ata tgt ttc aaa ctt ccg tgc aat ggt act gaa			96
Lys Cys Ile Asn Thr Ile Cys Phe Lys Leu Pro Cys Asn Gly Thr Glu			
	20	25	30
tgg gat ata tgt aaa tta ata aat act ttt cct aat tta aaa att gta			144
Trp Asp Ile Cys Lys Leu Ile Asn Thr Phe Pro Asn Leu Lys Ile Val			
	35	40	45
ata gat ttt aga tat tca gaa aca tgt tat aat cca tct gat ctt aat			192
Ile Asp Phe Arg Tyr Ser Glu Thr Cys Tyr Asn Pro Ser Asp Leu Asn			
	50	55	60
aaa tta ggt ata gaa tat ata aaa ata cca ata aaa gca caa tct tta			240
Lys Leu Gly Ile Glu Tyr Ile Lys Ile Pro Ile Lys Ala Gln Ser Leu			
65	70	75	80
cca aca gat gat aaa ata aat aaa ttt ttt aat att att gat aaa tat			288
Pro Thr Asp Asp Lys Ile Asn Lys Phe Phe Asn Ile Ile Asp Lys Tyr			
	85	90	95
att gaa tta aaa tat tta ata gga ata cat tgt act cat ggc att aat			336
Ile Glu Leu Lys Tyr Leu Ile Gly Ile His Cys Thr His Gly Ile Asn			
	100	105	110
aga act gga tat atg gtt tgt aaa tac tta ata tat aaa ttt aaa att			384
Arg Thr Gly Tyr Met Val Cys Lys Tyr Leu Ile Tyr Lys Phe Lys Ile			
	115	120	125
cca cct tat gtt gct ata aat att ttc gaa aaa aat aga gga tat tat			432
Pro Pro Tyr Val Ala Ile Asn Ile Phe Glu Lys Asn Arg Gly Tyr Tyr			
	130	135	140
ata gaa aga gaa ata tat ata aat aat tta tta tat ttt taa			474

Ile Glu Arg Glu Ile Tyr Ile Asn Asn Leu Leu Tyr Phe
145 150 155

<210> 66

<211> 870

<212> DNA

<213> Amsacta mobrei entomopoxvirus

<220>

<221> exon

<222> (1)..(870)

<400> 66

atg gaa aat tat cat att att ata tta aca att aaa aga aat tct gac 48
Met Glu Asn Tyr His Ile Ile Ile Leu Thr Ile Lys Arg Asn Ser Asp
1 5 10 15

aga tta caa aaa cta gaa aat ata tta tct tgt caa aat tta tta tat 96
Arg Leu Gln Lys Leu Glu Asn Ile Leu Ser Cys Gln Asn Leu Leu Tyr
20 25 30

aat aaa gat tat agt gta ttt tat gga ata gat tat aaa aat ata aat 144
Asn Lys Asp Tyr Ser Val Phe Tyr Gly Ile Asp Tyr Lys Asn Ile Asn
35 40 45

aaa aat aat tta aaa aat ata tgt aaa aaa gga ttt aaa aac aca tgt 192
Lys Asn Asn Leu Lys Asn Ile Cys Lys Lys Gly Phe Lys Asn Thr Cys
50 55 60

cct tat tca act tta gca tgt ggc tca tca cat att cta tta tgg aaa 240
Pro Tyr Ser Thr Leu Ala Cys Ala Ser Ser His Ile Leu Leu Trp Lys
65 70 75 80

tat ata tca aaa tta aaa gat aaa tat aaa tat att ata ata tta gaa 288
Tyr Ile Ser Lys Leu Lys Asp Lys Tyr Lys Tyr Ile Ile Ile Leu Glu
85 90 95

gat gat aca tat ata aat gta tca gag tat aat aaa cat aca aat aca 336
Asp Asp Thr Tyr Ile Asn Val Ser Glu Tyr Asn Lys His Thr Asn Thr
100 105 110

gtt gaa gaa tta tta aaa aat aat agt ata gta ttt tta tat tct gat 384
Val Glu Glu Leu Leu Lys Asn Asn Ser Ile Val Phe Leu Tyr Ser Asp
115 120 125

tgt tat ata atg gga act acc atc aaa tca acc aac aat gat aca aaa 432
Cys Tyr Ile Met Gly Thr Thr Ile Lys Ser Thr Asn Asn Asp Thr Lys
130 135 140

ata aca tat aat caa aag ttt cac gtt tgg atg ggt tgt tat tgt ata 480
Ile Thr Tyr Asn Pro Lys Phe His Val Ser Met Gly Cys Tyr Cys Ile
145 150 155 160

aca caa atc act gct act aaa tta tat tat ttc tat ata aaa tct aga 528
Thr Pro Ile Thr Ala Thr Lys Leu Tyr Tyr Phe Tyr Ile Lys Ser Arg
165 170 175

gta tgg ttc cac ata gat ttt caa tta aat ttt gat ata cat aat ata 576
Val Trp Phe His Ile Asp Phe Gln Leu Asn Phe Asp Ile His Asn Ile
130 135 190

tca tta aat aga tat att tat ata gct gct aat gta tgt aat caa tat 624
Ser Leu Asn Arg Tyr Ile Tyr Ile Ala Ala Asn Val Cys Asn Gln Tyr
195 200 205

gaa gga aat aaa tca tct atg ggt tta aaa cat aat aat ata atg tta 672
Glu Gly Asn Lys Ser Ser Met Gly Leu Lys His Asn Asn Ile Met Leu
210 215 220

ata cct ata gaa aat aca aaa tta atg aga ata ata tgg act cct att 720
Ile Pro Ile Glu Asn Thr Lys Leu Met Arg Ile Ile Ser Thr Pro Ile
225 230 235 240

ata aga gtt aat gaa gct gaa ata gat ttt tat ata ata ata atg tta 768
Ile Arg Val Asn Glu Ala Glu Ile Asp Phe Tyr Ile Ile Ile Met Leu
245 250 255

atc tca ctt atc gct agt tta tat ttc ttt ggt ttt aat att tct gcc 816
Ile Ser Leu Ile Ala Ser Leu Tyr Phe Phe Gly Phe Asn Ile Ser Ala
260 265 270

tta ata ttt tta tta ttt ata gta gta gat gtt gag gag aat gca aaa 864
Leu Ile Phe Leu Leu Phe Ile Val Val Asp Val Ala Glu Asn Ala Lys
275 280 285

aaa taa 870
Lys

<210> 67
<211> 1330
<212> DNA
<213> Amsacta mopei entomopoxvirus

<220>
<221> exon
<222> (1)..(1830)

<400> 67
atg aat ata aaa tta tta aaa aat gga atg cga att att aat aat aat 48
Met Asn Ile Lys Leu Leu Lys Asn Gly Met Arg Ile Ile Asn Asn Asn
1 5 10 15

ttt gat aat aat aat tta ata aat ata tct ata aat aat ttt ggt caa 96
Phe Asp Asn Asn Asn Leu Ile Asn Ile Ser Ile Asn Asn Phe Gly Gln
20 25 30

aat tta tca ata tat tat aag aat tat aag tta ata cat ctc ata gaa 144
Asn Leu Ser Ile Tyr Tyr Lys Asn Tyr Lys Leu Ile His Leu Ile Glu
35 40 45

cat ata tta gta tca atg cta ata gta tat aca ggt gaa tta tca ttt 192
His Ile Leu Val Ser Met Leu Ile Val Tyr Thr Gly Glu Leu Ser Phe
50 55 60

tgg aac gga tat aca aat tca aat aat att aat ata tat tat aat aat Trp Asn Gly Tyr Thr Asn Ser Asn Asn Ile Asn Ile Tyr Tyr Asn Asn 65 70 75 80	240
ata atg aat ata tca cat aat aaa ata att gat ggg ata ctt cgt tta Ile Met Asn Ile Ser His Asn Lys Ile Ile Asp Ala Ile Leu Arg Leu 85 90 95	288
ttt aat aaa aat ggt att ttt gtt gat gaa aat ata ata aat tat aaa Phe Asn Lys Asn Gly Ile Phe Val Asp Glu Asn Ile Ile Asn Tyr Lys 100 105 110	336
ttt tta gaa aat gaa aat aaa ata tta aat aat gaa aaa aat ttt aga Phe Leu Glu Asn Glu Asn Lys Ile Leu Asn Asn Glu Lys Asn Phe Arg 115 120 125	384
tta tta aca gat aaa tat gaa ata aat cct ata tta tat ctt tta aca Leu Leu Thr Asp Lys Tyr Glu Ile Asn Pro Ile Leu Tyr Leu Leu Thr 130 135 140	432
aat gat gtt tat tta gaa gaa aat aat caa aaa ata ata tct gat gtt Asn Asp Val Tyr Leu Glu Glu Asn Asn Gln Lys Ile Ile Ser Asp Val 145 150 155 160	480
aaa ttt att aat gat gta ttg tgg gat att aat gtg tca gat att ata Lys Phe Ile Asn Asp Val Leu Ser Asp Ile Asn Val Ser Asp Ile Ile 165 170 175	528
ttt tat act tca aat aca gat ttt ttt aat ata tta tat cgg cga tta Phe Tyr Thr Ser Asn Thr Asp Phe Phe Asn Ile Leu Tyr Pro Arg Leu 180 185 190	576
gat aaa ata att ttt aat aaa act aaa aat aaa aaa aat aaa ttt cta Asp Lys Ile Ile Phe Asn Lys Thr Lys Asn Lys Lys Asn Lys Phe Leu 195 200 205	624
aca tta ccc att tat aaa tct agt ttt aaa aat agt ata tat tta ttt Thr Leu Pro Ile Tyr Lys Ser Ser Phe Lys Asn Ser Ile Tyr Leu Phe 210 215 220	672
tct ttc gat caa aat aat aga tat tat agt ata act att aaa ttt aat Ser Phe Asp Gln Asn Asn Arg Tyr Tyr Ser Ile Thr Ile Lys Phe Asn 225 230 235 240	720
tta tta aaa tat gtt ata att gga tat atg att gat aaa tat tat tat Leu Leu Lys Tyr Val Ile Ile Gly Tyr Met Ile Asp Lys Tyr Tyr Tyr 245 250 255	768
aat aaa tta gta tta atc aat ata tta tcc gat aaa tta tta tct tta Asn Lys Leu Val Leu Ile Asn Ile Leu Ser Asp Lys Leu Leu Ser Leu 260 265 270	816
act ata tat ttt tta aca agt gaa tat atg tat aaa tca tta aat tat Thr Ile Tyr Phe Leu Thr Ser Glu Tyr Met Tyr Lys Ser Leu Asn Tyr 275 280 285	864
ttt gaa act ata gat tat tct aaa ata aaa aaa tta gaa ttt gat gat Phe Glu Thr Ile Asp Tyr Ser Lys Ile Lys Lys Leu Glu Phe Asp Asp 290 295	912

290	295	300	
tat gta ata tta aat gaa	tat ttt gat att ata aat	att tat aat aat	960
Tyr Val Ile Leu Asn Glu	Tyr Phe Asp Ile Ile Asn	Ile Tyr Asn Asn	
305	310	315	320
ata aaa agt aat aat ata aat	aaa tat tat tct tat tat	aat aaa tat	1003
Ile Lys Ser Asn Asn Ile	Asn Lys Tyr Tyr Ser Tyr	Tyr Tyr Asn Lys Tyr	
325	330	335	
att gat tat att ata aat	tca tct aca gat ata aat	aaa ttt ttt tta	1056
Ile Asp Tyr Ile Ile Asn	Ser Ser Thr Asp Ile Asn	Lys Phe Phe Leu	
340	345	350	
aaa ata cct aat caa cta	tat tta aat aat gaa ttt	gat att aat aat	1104
Gln Ile Pro Asn Gln Leu	Tyr Leu Asn Asn Glu Phe	Asp Ile Asn Asn	
355	360	365	
att cct gtt ttt aaa gca	gaa aca tta ttt aat agt	aaa ata aac aca	1152
Ile Pro Val Phe Lys Ala	Glu Thr Leu Phe Asn Ser	Lys Ile Asn Thr	
370	375	380	
aat aat aaa aat aaa ata	aca aat att aat aat ata	gaa ata tta aat	1200
Asn Asn Lys Asn Lys Ile	Thr Asn Ile Asn Asn Ile	Glu Ile Leu Asn	
385	390	395	400
ttt aat gtt aat aat atg	ata ttt ttt atg aat gtt	att gaa gat aaa	1248
Phe Asn Val Asn Asn Met	Ile Phe Phe Met Asn Val	Ile Glu Asp Lys	
405	410	415	
ttt gaa ata aaa aat aat	gaa ata att ata aaa aat	aca aaa aat ata	1296
Phe Glu Ile Lys Asn Asn	Glu Ile Ile Ile Lys Asn	Thr Lys Asn Ile	
420	425	430	
tat aaa tca gat aat aat	ata tgt gtg ctt aat aat	aat tat aat tat	1344
Tyr Lys Ser Asp Asn Asn	Ile Cys Val Leu Asn Asn	Asn Tyr Asn Tyr	
435	440	445	
cct aaa ata tat ttt tat	tat aaa tat ttt ata att	tac ttt ttt tct	1392
Pro Lys Ile Tyr Phe Tyr	Tyr Lys Tyr Phe Ile Ile	Tyr Phe Phe Ser	
450	455	460	
aat ata ttt tta aat att	gac gat ggt ata gaa tat	gta aaa tat aaa	1440
Asn Ile Phe Leu Asn Ile	Asp Asp Ala Ile Glu Tyr	Val Lys Tyr Lys	
465	470	475	480
cct tat ttt aat tta tta	aat aat att aat gta gaa	aat aat ttt aac	1488
Pro Tyr Phe Asn Leu Leu	Asn Asn Ile Asn Val Glu	Asn Asn Phe Asn	
485	490	495	
aca aat ata tta ata aat	aat aaa aaa ata aac ata	aat aca aat cat	1536
Thr Asn Ile Leu Ile Asn	Asn Lys Lys Ile Asn Ile	Asn Thr Asn His	
500	505	510	
gat ttc ata aca gca tta	tac ata tat aat tgt aat	aat aaa aat tgt	1584
Asp Phe Ile Thr Ala Leu	Tyr Ile Tyr Asn Cys Asn	Asn Lys Asn Cys	
515	520	525	

tat ata cat atg gct act att tca gat ata tta aga gat ctc gga tta	1632
Tyr Ile His Met Ala Thr Ile Ser Asp Ile Leu Arg Asp Leu Gly Leu	
530 535 540	
ata tac acc cct att att aat ttt gaa aat aat cta gtt tat tta ttt	1680
Ile Tyr Thr Pro Ile Ile Asn Phe Glu Asn Asn Leu Val Tyr Leu Phe	
545 550 555 560	
ata ata aca aat aaa cca cat gaa act gaa ata cat tta aga aaa ata	1728
Ile Ile Thr Asn Lys Pro His Glu Thr Glu Ile His Leu Arg Lys Ile	
565 570 575	
tta aat gat aaa ttt aat gta aat aat gtt att aca ata ata tca aca	1776
Leu Asn Asp Lys Phe Asn Val Asn Asn Val Ile Thr Ile Ile Ser Thr	
580 585 590	
aaa gga aac tat aac act aaa gaa tta tta aat aaa tac ata acc ttc	1824
Lys Gly Asn Tyr Asn Thr Lys Glu Leu Leu Asn Lys Tyr Ile Thr Phe	
595 600 605	
aat taa	1830
Asn	

<210> 68
<211> 741
<212> DNA
<213> Amsacta moorei entomopoxvirus

<220>
<221> exon
<222> (1)..(741)

atg gga gag tcc gca agt att aat act att gtg tct gat ata act aat	48
Met Gly Ala Ser Ala Ser Ile Asn Thr Ile Val Ser Asp Ile Thr Asn	
1 5 10 15	
aga gtt gaa aat tca tta att caa aca gca aat gcc tct gca caa gca	96
Arg Val Glu Asn Ser Leu Ile Gln Thr Ala Asn Ala Ser Ala Gln Ala	
20 25 30	
ata tgt cga gta aca att gga agt att agt ttt aga tcc aca cag gga	144
Ile Cys Arg Val Thr Ile Gly Ser Ile Ser Phe Arg Ser Thr Gln Gly	
35 40 45	
tgt act ata gag gta aga aat tta tgt agt gcg caa got gta gca caa	192
Cys Thr Ile Glu Val Arg Asn Leu Cys Ser Ala Gln Ala Val Ala Gln	
50 55 60	
gtt gac gct gta gta aat gca act att gat ttt tat aat aat tta act	240
Val Asp Ala Val Val Asn Ala Thr Ile Asp Phe Tyr Asn Asn Leu Thr	
65 70 75 80	
ttt gaa caa aaa caa gaa gca cct acg tgg ttt aca gta got tat gga	288
Phe Glu Gln Lys Gln Glu Ala Pro Thr Trp Phe Thr Val Ala Tyr Gly	
85 90 95	

ata aat act act gta act act atc gaa aat gat ttt aga aat tta gtt Ile Asn Thr Thr Val Thr Thr Ile Glu Asn Asp Phe Arg Asn Leu Val 100 105 110	336
gaa caa aga tgt aaa tct caa gct gtt tta gat agt agc ata aca gtt Glu Gln Arg Cys Lys Ser Gln Ala Val Leu Asp Ser Ser Ile Thr Val 115 120 125	384
gat aat att tta gtt aat gat tgt aga gca cca gga aat gaa ata gtt Asp Asn Ile Leu Val Asn Asp Cys Arg Ala Pro Gly Asn Glu Ile Val 130 135 140	432
aga ttt aca ttt gtt aat tct gga acg gct gct gga caa tgt gca ata Arg Phe Thr Phe Val Asn Ser Gly Thr Ala Ala Gly Gln Cys Ala Ile 145 150 155 160	480
tct gct cta tta gat tta caa gta gcg ggt tct aat caa gta agt gct Ser Ala Leu Leu Asp Leu Gln Val Ala Gly Ser Asn Gln Val Ser Ala 165 170 175	528
agt caa agt caa ggt tta aat ata gga aat ata ata tta tat gta gca Ser Gln Ser Gln Gly Leu Asn Ile Gly Asn Ile Ile Leu Tyr Val Ala 180 185 190	576
ata gca att att gtt att gca ata tca tat gtt tta ata aaa ttt ttt Ile Ala Ile Ile Val Ile Ala Ile Ser Tyr Val Leu Ile Lys Phe Phe 195 200 205	624
ggt aat aaa cca aca ata aaa caa caa att agt tta gaa tta gct aaa Gly Asn Lys Pro Thr Ile Lys Gln Gln Ile Ser Leu Glu Leu Ala Lys 210 215 220	672
aat gga gca gtg tct agt caa tta ata caa tta tog aga tat gta tct Asn Gly Ala Val Ser Ser Gln Leu Ile Gln Leu Ser Arg Tyr Val Ser 225 230 235 240	720
aaa ata gat gat aga gat tga Lys Ile Asp Asp Arg Asp 245	741

<210> 69
<211> 831
<212> DNA
<213> Amsacta moorei entomopoxvirus

<220>
<221> exon
<222> (1)..(831)

atg act tta gtt aaa cat aat acg atg cat aat ttt tta cat tca aaa Met Thr Leu Val Lys His Asn Thr Met His Asn Phe Leu His Ser Lys 1 5 10 15	48
tca aat ata tct gaa tta gat tat agt att gaa tct tog tca gaa aga Ser Asn Ile Ser Glu Leu Asp Tyr Ser Ile Glu Ser Ser Ser Glu Arg 20 25 30	96

aga gat ata att ata aaa aaa tac gat aca tta aat ata aaa aat tat	144
Arg Asp Ile Ile Ile Lys Lys Tyr Asp Thr Leu Asn Ile Lys Asn Tyr	
35 40 45	
aat aga aaa aca agt ttt aat ggt ata tta ata aca agc gat aat aaa	192
Asn Arg Lys Thr Ser Phe Asn Ala Ile Leu Ile Thr Ser Asp Asn Lys	
50 55 60	
att att att gca gaa aga aaa ttt agc tat tat atg gac aca ata tat	240
Ile Ile Ile Ala Glu Arg Lys Phe Ser Tyr Tyr Met Asp Thr Ile Tyr	
65 70 75 80	
ata ata tct aca tat aaa aat ata tct gat gat ata tta gaa aca ttt	288
Ile Ile Ser Thr Tyr Lys Asn Ile Ser Asp Asp Ile Leu Glu Thr Phe	
85 90 95	
att aaa tta ttt gat aaa tta aat aat aaa gaa aaa tat aat ata tat	336
Ile Lys Leu Phe Asp Lys Leu Thr Asn Lys Glu Lys Tyr Asn Ile Tyr	
100 105 110	
aat aaa aaa aga ata aat aaa aaa tat att tca att ata aat ttt att	384
Asn Lys Lys Arg Ile Asn Lys Lys Tyr Ile Ser Ile Ile Asn Phe Ile	
115 120 125	
gaa gta tat ttc gat ggt aat ata aat cat aaa tat tta caa tat tta	432
Glu Val Tyr Phe Asp Gly Asn Ile Asn His Lys Tyr Leu Gln Tyr Leu	
130 135 140	
tat aat gta aaa tct aga att ata tta aat aat aat ttt aga tac aga	480
Tyr Asn Val Lys Ser Arg Ile Ile Leu Asn Asn Asn Phe Arg Tyr Arg	
145 150 155 160	
gat aaa ttt tta att tta cct ggt ggt aaa aaa aat aat aat gaa aat	528
Asp Lys Phe Leu Ile Leu Pro Gly Gly Lys Lys Asn Asn Asn Glu Asn	
165 170 175	
att aat gaa gtt ata agt cga gaa tca cac gaa gaa ata aat att cct	576
Ile Asn Glu Val Ile Ser Arg Glu Ser His Glu Glu Ile Asn Ile Pro	
180 185 190	
ata aat aat caa gat aat aat aat att gat ata atg caa gac tat tat	624
Ile Asn Asn Gln Asp Asn Asn Asn Ile Asp Ile Met Gln Asp Tyr Tyr	
195 200 205	
tca gaa act ata ata ttt gat aaa ata ctt tca aaa aaa ttt att gat	672
Ser Glu Thr Ile Ile Phe Asp Lys Ile Leu Ser Lys Lys Phe Ile Asp	
210 215 220	
gtt act att ata gca aaa atc aaa tat agt tct att caa ata tta aat	720
Val Thr Ile Ile Ala Lys Ile Lys Tyr Ser Ser Ile Gln Ile Leu Asn	
225 230 235 240	
ttc ttt aaa ccc aat cat gaa att agt aat att aaa ttt ata cct att	768
Phe Phe Lys Pro Asn His Glu Ile Ser Asn Ile Lys Phe Ile Pro Ile	
245 250 255	
aat aaa ata aat tcg atg att gat ata ttt tat tat gta caa aaa caa	816
Asn Lys Ile Asn Ser Met Ile Asp Ile Phe Tyr Tyr Val Gln Lys Gln	

260	265	270	
tta atc tat tgt taa			831
Leu Ile Tyr Cys			
275			
<210 - 70			
<211 - 1002			
<212 - DNA			
<213 - Amsacta moorei entomopoxvirus			
<220 -			
<221 - exon			
<222 - (1)..(1002)			
<400 - 70			
atg aaa aaa tat aat aat aca tac aag att ata gaa gaa aaa att			48
Met Lys Lys Lys Tyr Asn Asn Thr Tyr Lys Ile Ile Glu Glu Lys Ile			
1 5 10 15			
tat aat acg gat gga caa gaa ata gta gac gat aat tta tta aat att			96
Tyr Asn Thr Asp Gly Gln Glu Ile Val Asp Asp Asn Leu Leu Asn Ile			
20 25 30			
ata aag aaa tat aaa cct ccc aaa cat ctt aat aat ata gaa tta ata			144
Ile Lys Lys Tyr Lys Pro Pro Lys His Leu Asn Asn Ile Glu Leu Ile			
35 40 45			
gct aaa aat atc gag gaa gct gac aac ggt ata ata tat att ggt att			192
Ala Lys Asn Ile Glu Glu Ala Asp Asn Gly Ile Ile Tyr Ile Gly Ile			
50 55 60			
gat agt aaa aat aaa aaa caa tat att tac gga ata aat tac gta aaa			240
Asp Ser Lys Asn Lys Lys Gln Tyr Ile Tyr Gly Ile Asn Tyr Val Lys			
65 70 75 80			
aaa aga aga aat gac aga ata aaa ata ttt tta aaa gta gaa aat aaa			288
Lys Arg Arg Asn Asp Arg Ile Lys Ile Phe Leu Lys Val Glu Asn Lys			
85 90 95			
ata cct aaa ata gaa aaa tat att aat aaa gaa ttg aat ata ttc aaa			336
Ile Pro Lys Ile Glu Lys Tyr Ile Asn Lys Glu Leu Asn Ile Phe Lys			
100 105 110			
aaa aat ggt agt aat tca tca cac ata tac ata act gat aaa atg att			384
Lys Asn Gly Ser Asn Ser Ser His Ile Tyr Ile Thr Asp Lys Met Ile			
115 120 125			
ttt gct att ata tta tta gta gaa atg tgt ttt ttt ata aga act gga			432
Phe Ala Ile Ile Leu Leu Val Glu Met Cys Phe Phe Ile Arg Thr Gly			
130 135 140			
aaa aaa aaa tat tta gaa gat aat gaa act atc gga tta ttg aca tta			480
Lys Lys Lys Tyr Leu Glu Asp Asn Glu Thr Ile Gly Leu Leu Thr Leu			
145 150 155 160			
caa aaa aat aat ttt aca ata gaa aat gat gtt ata tat ata aat ttt			528

Gln	Lys	Asn	Asn	Phe	Thr	Ile	Glu	Asn	Asp	Val	Ile	Tyr	Ile	Asn	Phe	
				165					170					175		
aaa	gga	aaa	tta	tct	caa	aat	caa	aat	ttt	agc	ata	tta	aaa	gat	gag	576
Lys	Gly	Lys	Leu	Ser	Gln	Asn	Gln	Asn	Phe	Ser	Ile	Leu	Lys	Asp	Glu	
			130					135					190			
cat	tta	tta	ata	tac	aat	atg	att	aaa	ata	tta	tat	aat	aag	act	aat	624
His	Leu	Leu	Ile	Tyr	Asn	Met	Ile	Lys	Ile	Leu	Tyr	Asn	Lys	Thr	Asn	
			195				200					205				
gat	ttt	ata	ttt	aaa	aat	agt	gat	gat	ata	ata	ttt	aat	gaa	tct	aaa	672
Asp	Phe	Ile	Phe	Lys	Asn	Ser	Asp	Asp	Ile	Ile	Phe	Asn	Glu	Ser	Lys	
	210					215					220					
tta	tat	tct	atg	att	aaa	caa	ttt	aat	ata	aag	tta	aaa	gat	ata	aga	720
Leu	Tyr	Ser	Met	Ile	Lys	Gln	Phe	Asn	Ile	Lys	Leu	Lys	Asp	Ile	Arg	
	225				230					235					240	
aca	ttt	gga	gtt	aat	aga	gtt	tta	ata	caa	gaa	ttg	tgg	aaa	aat	gtt	768
Thr	Phe	Gly	Val	Asn	Arg	Val	Leu	Ile	Gln	Glu	Leu	Trp	Lys	Asn	Val	
				245					250					255		
aga	gat	tta	gat	att	atg	gat	att	agg	cat	aaa	gat	ata	aaa	aaa	ata	816
Arg	Asp	Leu	Asp	Ile	Met	Asp	Ile	Arg	His	Lys	Asp	Ile	Lys	Lys	Ile	
				260				265					270			
ata	tca	gaa	gta	gtt	aaa	aga	aca	gct	aat	ata	att	ggt	cat	aca	cca	864
Ile	Ser	Glu	Val	Val	Lys	Arg	Thr	Ala	Asn	Ile	Ile	Gly	His	Thr	Pro	
			275				280					285				
act	ata	tcc	aaa	aat	agt	tat	ata	gta	gat	gaa	ata	aga	tct	ata	ata	912
Thr	Ile	Ser	Lys	Asn	Ser	Tyr	Ile	Val	Asp	Glu	Ile	Arg	Ser	Ile	Ile	
	290					295					300					
gat	aaa	gat	act	ata	aac	aaa	gct	aaa	gaa	atg	aca	ttt	gat	gaa	tat	960
Asp	Lys	Asp	Thr	Ile	Asn	Lys	Ala	Lys	Glu	Met	Thr	Phe	Asp	Glu	Tyr	
	305				310				315					320		
tat	aaa	tat	att	gta	gat	aaa	tta	aaa	gaa	tta	acc	aat	taa			1002
Tyr	Lys	Tyr	Ile	Val	Asp	Lys	Leu	Lys	Glu	Leu	Thr	Asn				
				325				330								

<210> 71
 <211> 1161
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<220>
 <221> exon
 <222> (1)..(1161)

atg	ggt	ggt	aga	gta	agt	ata	tcg	ttt	ata	aga	cca	gag	aat	aat	aat	48
Met	Gly	Gly	Arg	Val	Ser	Ile	Ser	Phe	Ile	Arg	Pro	Glu	Asn	Asn	Asn	
1				5				10						15		

aat gga aat aaa aat tta tta ata ggt tta agt gat aat aac ata gtt Asn Gly Asn Lys Asn Leu Leu Ile Gly Leu Ser Asp Asn Asn Ile Val 20 25 30	96
aga gtt ccc atg ttt gaa caa att aat aga ata cca aga tcc gct tat Arg Val Pro Met Phe Glu Gln Ile Asn Arg Ile Pro Arg Ser Ala Tyr 35 40 45	144
gaa aat ctc gac gaa tat gaa ata aat tat tgt att gga act cca ttt Glu Asn Leu Asp Glu Tyr Glu Ile Asn Tyr Cys Ile Gly Thr Pro Phe 50 55 60	192
aat tct ttg gca gaa tgt gca tta tta ttt aat aat aat att ttg tct Asn Ser Leu Ala Glu Cys Ala Leu Leu Phe Asn Asn Asn Ile Leu Ser 65 70 75 80	240
aat tat aca agc gaa tta gat aat tat gta ata act aac gaa gga tcc Asn Tyr Thr Ser Glu Leu Asp Asn Tyr Val Ile Thr Asn Glu Gly Ser 85 90 95	288
ccc tgt act agt tta aca ttt agg ccc gga agt ata tta tat ggt aat Pro Cys Thr Ser Leu Thr Phe Arg Pro Gly Ser Ile Leu Tyr Gly Asn 100 105 110	336
tca gaa tgg tta gaa ggt aga aca ttt gtt gga aat aaa tgt aaa ata Ser Glu Trp Leu Glu Gly Arg Thr Phe Val Gly Asn Lys Cys Lys Ile 115 120 125	384
aga tat aga gga tat cca ata tat gaa aat gat ttg cgg gaa tgt tgt Arg Tyr Arg Gly Tyr Pro Ile Tyr Glu Asn Asp Leu Arg Glu Cys Cys 130 135 140	432
act ggt aaa aga aca tct ggt tgt cac gaa aca tta ata aat aac ttt Thr Gly Lys Arg Thr Ser Gly Cys His Glu Thr Leu Ile Asn Asn Phe 145 150 155 160	480
aca aca cca cat tgt aat gta aca atg caa aat ttt tgc aga caa aat Thr Thr Pro His Cys Asn Val Thr Met Gln Asn Phe Cys Arg Gln Asn 165 170 175	528
ccc gaa gat tta tat tgc tat aga tgg atg tat agc caa tct aaa aca Pro Glu Asp Leu Tyr Cys Tyr Arg Trp Met Tyr Ser Gln Ser Lys Thr 180 185 190	576
ttt gat att gct tta aaa tta tat tca gaa tta tgt agt ata gat cat Phe Asp Ile Ala Leu Lys Leu Tyr Ser Glu Leu Cys Ser Ile Asp His 195 200 205	624
act aaa tta tat tgt gat tat atg tgt gtg tat ccc aga gaa aat gga Thr Lys Leu Tyr Cys Asp Tyr Met Cys Val Tyr Ala Arg Glu Asn Gly 210 215 220	672
tat cca gga tat tgt gat gat tcc ttg tca aac tgg tgt aaa aat aat Tyr Pro Gly Tyr Cys Asp Asp Ser Leu Ser Asn Trp Cys Lys Asn Asn 225 230 235 240	720
agt aat aat tcc tta tgt ttt tgt tat aat cct cct act gaa ttt ata Ser Asn Asn Ser Leu Cys Phe Cys Tyr Asn Pro Pro Thr Glu Phe Ile	768

245	250	255	
cca gat gtt gaa gaa gtt ttg ggt	cca aaa gaa tgt tgg tta gcg cca		816
Pro Asp Val Glu Glu Val Leu Gly	Pro Lys Glu Cys Trp Leu Ala Pro		
260	265	270	
tgt act gtc tct tat agt ggt caa aaa tgg tta aca acc aat cag atg			864
Cys Thr Val Ser Tyr Ser Gly Gln Lys Trp Leu Thr Thr Asn Gln Met			
275	280	285	
aat ata aaa aaa aat tgt aat ata caa tct tgt att ata acc ata gga			912
Asn Ile Lys Lys Asn Cys Asn Ile Gln Ser Cys Ile Ile Thr Ile Gly			
290	295	300	
tca ttg tta act aga ggt aat aat aaa att gat tta ata aat aat tgt			960
Ser Leu Leu Thr Arg Gly Asn Asn Lys Ile Asp Leu Ile Asn Asn Cys			
305	310	315	320
ata aac aat tta aac gca agc aca gta ata aat tca gaa aat tta tca			1008
Ile Asn Asn Leu Asn Ala Ser Thr Val Ile Asn Ser Glu Asn Leu Ser			
325	330	335	
aat gtc act gat ata aaa ata aat caa aca tgg gga gta ttt ttc gat			1056
Asn Val Thr Asp Ile Lys Ile Asn Gln Thr Trp Gly Val Phe Phe Asp			
340	345	350	
cca gtt ata ttt att tta ata ata ttt ata ttt ata ttg ata ata tta			1104
Pro Val Ile Phe Ile Leu Ile Ile Phe Ile Phe Ile Leu Ile Ile Leu			
355	360	365	
tat ttt tat aat aaa aaa cca ata tat act att aat ata agt gaa act			1152
Tyr Phe Tyr Asn Lys Lys Pro Ile Tyr Thr Ile Asn Ile Ser Glu Thr			
370	375	380	
aat tta taa			1161
Asn Leu			
385			

<210> 72

<211> 423

<212> DNA

<213> Amsacta moorei entomopoxvirus

<220>

<221> exon

<222> (1)..(423)

<400> 72

atg tta agt aat tat gaa aat gat aat aaa atg ata gaa tat tgt aat	48
Met Leu Ser Asn Tyr Glu Asn Asp Asn Lys Met Ile Glu Tyr Cys Asn	
1 5 10 15	

aat aat aaa gat gat ata aaa tgt caa tgt tta ata gtg aat gat aat	96
Asn Asn Lys Asp Asp Ile Lys Cys Gln Cys Leu Ile Val Asn Asp Asn	
20 25 30	

atc gat gta ttt tca aaa tca tca tat gcg cca tat ttt tgt tgg tat	144
---	-----

Ile Asp Val Phe Ser Lys Ser Ser Tyr Ala Pro Tyr Phe Cys Trp Tyr	
35 40 45	
tct gcg tgt aga aat aat gaa aac tat att act agt tta ata aaa agt	192
Ser Ala Cys Arg Asn Asn Glu Asn Tyr Ile Thr Ser Leu Ile Lys Ser	
50 55 60	
gaa caa caa tat tgt aat att aca gtg tgt gaa att agt gtt aca gat	240
Glu Gln Gln Tyr Cys Asn Ile Thr Val Cys Glu Ile Ser Val Thr Asp	
65 70 75 80	
ata gta tta aat gac aat gga aat tta act gta aca aac gaa tgt got	288
Ile Val Leu Asn Asp Asn Gly Asn Leu Thr Val Thr Asn Glu Cys Ala	
85 90 95	
agt aac ata aat cct ata tat tca tta tct caa att ata gtt aat tta	336
Ser Asn Ile Asn Pro Ile Tyr Ser Leu Ser Gln Ile Ile Val Asn Leu	
100 105 110	
acg tca ttt gac ata cca aat tta ttt gta agt ttt ttt tat cgg ata	384
Thr Ser Phe Asp Ile Pro Asn Leu Phe Val Ser Phe Phe Tyr Pro Ile	
115 120 125	
gtt att att ata tca att tta ata ttt ttt aaa aaa taa	423
Val Ile Ile Ile Ser Ile Leu Ile Phe Phe Lys Lys	
130 135 140	

<210> 73
 <211> 747
 <212> DNA
 <213> Amsacta moorei entomopoxvirus

<210>
 <211> exon
 <212> (1)..(747)

atg aat gaa tgg caa tta caa acc aga aat agt agt att aat ata ggt	48
Met Asn Glu Ser Gln Leu Gln Thr Arg Asn Ser Ser Ile Asn Ile Gly	
1 5 10 15	
aga act ata ttt aat gac gta tat act aga ttt atc gat aaa tta aat	96
Arg Thr Ile Phe Asn Asp Val Tyr Thr Arg Phe Ile Asp Lys Leu Asn	
20 25 30	
aga ata tct agt aca aca aat att aat tgt aat ata aat ata aat gaa	144
Arg Ile Ser Ser Thr Thr Asn Ile Asn Cys Asn Ile Asn Ile Asn Glu	
35 40 45	
ata aga aca agt aat att aat aat tgt aat ata gtt tta agt aat aaa	192
Ile Arg Thr Ser Asn Ile Asn Asn Cys Asn Ile Val Leu Ser Asn Lys	
50 55 60	
tgt gtt agt aat gaa ata act agt ttt aca tta tta tta caa agt tta	240
Cys Val Ser Asn Glu Ile Thr Ser Phe Thr Leu Leu Leu Gln Ser Leu	
65 70 75 80	

gga gaa act atg tta cta tta cca gaa gac aga ggc aca caa ata gaa 288
Gly Glu Thr Met Leu Leu Leu Pro Glu Asp Arg Arg Thr Gln Ile Glu
85 90 95

aat ata tta gga ata tcc aca gat gat ata ata aat gaa aat gat act 336
Asn Ile Leu Gly Ile Ser Thr Asp Asp Ile Ile Asn Glu Asn Asp Thr
100 105 110

gga ttc ata aat aat tgt aga gca agt gca gta gtg gac aat agt ata 384
Gly Phe Ile Asn Asn Cys Arg Ala Ser Ala Val Val Asp Asn Ser Ile
115 120 125

aat atc ggt act ata gaa ata aat gat tgt tat tct aat ttt cct act 432
Asn Ile Gly Thr Ile Glu Ile Asn Asp Cys Tyr Ser Asn Phe Pro Thr
130 135 140

gat ttc tta ttt tta aat ggc ggt tct ggc gat gct aat tgt gga ata 480
Asp Phe Leu Phe Leu Asn Ala Gly Ser Ala Asp Ala Asn Cys Gly Ile
145 150 155 160

aaa tat ata tca gat gca tta cta aaa tta gat aat aga aaa cca gaa 528
Lys Tyr Ile Ser Asp Ala Leu Leu Lys Leu Asp Asn Arg Lys Pro Glu
165 170 175

tta tca ttg caa tta ttg ttt aat ata aaa atg ata gat tat ata ata 576
Leu Ser Leu Gln Leu Leu Phe Asn Ile Lys Met Ile Asp Tyr Ile Ile
180 185 190

ata tta ata act att tta tct ata tat ata tta ttt att ttt atg tca 624
Ile Leu Ile Thr Ile Leu Ser Ile Tyr Ile Leu Phe Ile Phe Met Ser
195 200 205

ttt tta ata cca aga aat aaa aaa tct atc tat tat tct aga aat act 672
Phe Leu Ile Pro Arg Asn Lys Lys Ser Ile Tyr Tyr Ser Arg Asn Thr
210 215 220

att ctt aat aaa aat gat aaa atc tta gaa aat att tat ttg aga cat 720
Ile Leu Asn Lys Asn Asp Lys Ile Leu Glu Asn Ile Tyr Leu Arg His
225 230 235 240

tac gat ggg atc aat aat ttt ata tga 747
Tyr Asp Gly Ile Asn Asn Phe Ile
245

<210> 74
<211> 1011
<212> DNA
<213> Amsacta moorei entomopoxvirus

<220>
<221> exon
<222> (1)..(1011)

<400> 74
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Met Gly Gly Ser Val Asp Ile Glu Ala Arg Tyr Thr Gly Ser Ser Asn
1 5 10 15

ttt caa gaa aca tat ttg tca ttt tca aat tta att aat act ata tat	96
Phe Gln Glu Thr Tyr Leu Ser Phe Ser Asn Leu Ile Asn Thr Ile Tyr	
20 25 30	
ata tta aca aga gat gaa aga ata oca ata ggt ata ttt tca aac aat	144
Ile Leu Thr Arg Asp Glu Arg Ile Pro Ile Gly Ile Phe Ser Asn Asn	
35 40 45	
oct gat gat tac aga aat tat oga gga tat act gct ata ttt aaa oca	192
Pro Asp Asp Tyr Arg Asn Tyr Arg Gly Tyr Thr Ala Ile Phe Lys Pro	
50 55 60	
ggc gga tat aaa gaa tta ttg aaa gta aat gac tta gga ooc gat gac	240
Gly Gly Tyr Lys Glu Leu Leu Lys Val Asn Asp Leu Gly Pro Asp Asp	
65 70 75 80	
ttg tgt tgt att tat gat tgg aga tat gct tgg gtt gat gaa aat aat	288
Leu Cys Cys Ile Tyr Asp Trp Arg Tyr Ala Trp Val Asp Glu Asn Asn	
85 90 95	
ata tta tca caa aac gca agt gta aat aaa aat tta ttt acg tgc gat	336
Ile Leu Ser Gln Asn Ala Ser Val Asn Lys Asn Leu Phe Thr Cys Asp	
100 105 110	
oct aga act ata caa gta gga act aat aat att tgt gat aat tgc atg	384
Pro Arg Thr Ile Gln Val Gly Thr Asn Asn Ile Cys Asp Asn Ser Met	
115 120 125	
tat aga gct tgt ata tta gat ttt aat aat cat aga tat tta gaa ggc	432
Tyr Arg Ala Cys Ile Leu Asp Phe Asn Asn His Arg Tyr Leu Glu Ala	
130 135 140	
aaa tgt ggt gtt tgg tta gat ggt tta ttt aaa aga ttt gca aca gct	480
Lys Cys Gly Val Trp Leu Asp Gly Leu Phe Lys Arg Phe Ala Thr Ala	
145 150 155 160	
tca aat att ata aat aat aca aat aat ata ota tta caa tog tgt tot	528
Ser Asn Ile Ile Asn Asn Thr Asn Asn Ile Leu Leu Gln Ser Cys Ser	
165 170 175	
aat aat att aat aat gat ttg tgt ata aaa tgg tta ata gca ata aga	576
Asn Asn Ile Asn Asn Asp Leu Cys Ile Lys Trp Leu Ile Ala Ile Arg	
180 185 190	
aat agc gga aat oct aca ttt ttt tca tta gca gat aat gtt tta aac	624
Asn Ser Gly Asn Pro Thr Phe Phe Ser Leu Ala Asp Asn Val Leu Asn	
195 200 205	
gca caa aca gat aaa aca aat tta aaa tgt gct ttt tot oct tca tat	672
Ala Gln Thr Asp Lys Thr Asn Leu Lys Cys Ala Phe Ser Pro Ser Tyr	
210 215 220	
att aca gat aca caa aat aga tta aat gtt oca aaa gaa tgt tgg tat	720
Ile Thr Asp Thr Gln Asn Arg Leu Asn Val Pro Lys Glu Cys Trp Tyr	
225 230 235 240	
aga gag tgt gct ttt tca oca aat tat ota tta tta act gac aat ata	768
Arg Glu Cys Ala Phe Ser Pro Asn Tyr Leu Leu Leu Thr Asp Asn Ile	

245	250	255	
aca tta aaa aat aat tgt tca ttg tct gaa tgt aat ata aat atc gga			816
Thr Leu Lys Asn Asn Cys Ser Leu Ser	Glu Cys Asn Ile Asn Ile Gly		
260	265	270	
aat tta gat ata gta tct gcg tca gaa gta aca ata act tgc aat aat			864
Asn Leu Asp Ile Val Ser Ala Ser	Glu Val Thr Ile Thr Cys Asn Asn		
275	280	285	
aat aaa tca aat act gta tca tca aga caa aaa tta gat ata tta ttg			912
Asn Lys Ser Asn Thr Val Ser Ser Arg Gln Lys Leu Asp Ile Leu Leu			
290	295	300	
aga gaa tca gaa gat tat aga ttt ttg tta act aac aac att tta ata			960
Arg Glu Ser Glu Asp Tyr Arg Phe Leu Leu Thr Asn Asn Ile Leu Ile			
305	310	315	320
tta att tta tta ttt ata ttt tta ata ttt tta ata att aga cat aat			1008
Leu Ile Leu Leu Phe Ile Phe Leu Ile Phe Leu Ile Ile Arg His Asn			
325	330	335	
taa			1011